

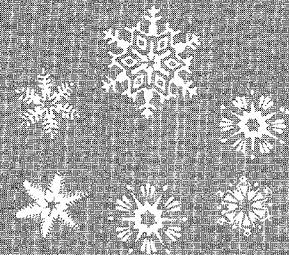
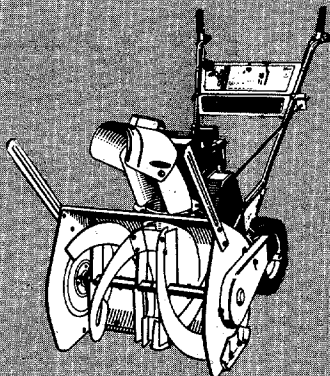
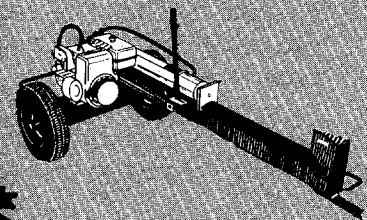
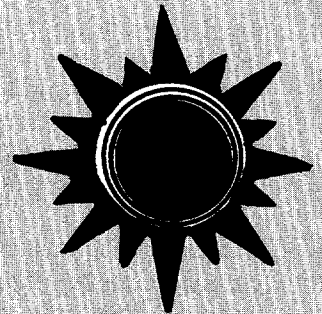
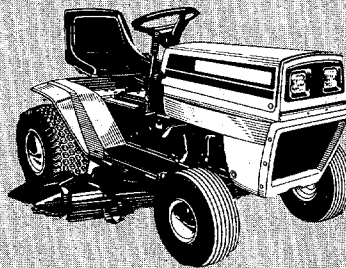
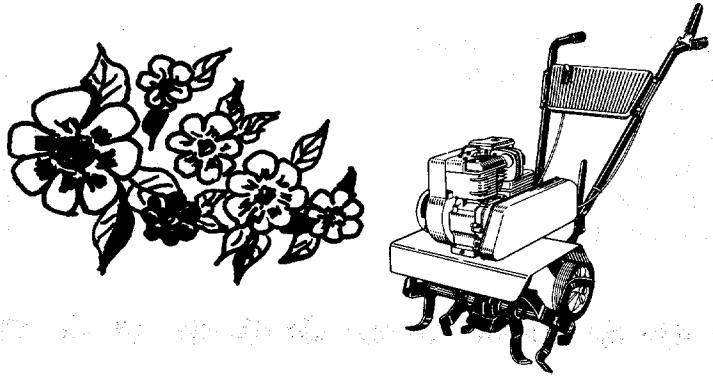
# OWNER'S MANUAL

## 38" LAWN TRACTOR

**Model Number  
132-698A**

**Important:  
Read Safety Rules and  
Instructions Carefully**

Thank you for purchasing an  
American built product.



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## LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



**WARNING**

### TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.



## WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

# SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—**READ THIS OWNER'S MANUAL.**
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.
6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
7. To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and only ride in the seat.
8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches, before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit, which could result in serious injury.
9. To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.
10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
11. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
12. Stop the blade(s) when crossing gravel drives, walks or roads.
13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
14. Disengage power to attachment(s) and stop engine before leaving operating position.
15. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
18. Disengage power to attachment(s) when transporting or not in use.
19. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
22. Stay alert for holes in terrain and other hidden hazards.
23. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - D. Use counterweight(s) or wheel weights when suggested in owner's manual.
24. Watch out for traffic when crossing or near roadways.
25. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
26. Handle gasoline with care. It is highly flammable.
  - A. Use approved gasoline container.
  - B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
  - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.

29. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
31. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
32. Do not change the engine governor settings or overspeed the engine.
33. When using the vehicle with mower, proceed as follows:
  - (1) Mow only in daylight or in good artificial light.
- (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
- (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
- (4) Check blade mounting bolts for proper tightness at frequent intervals.
34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.



#### NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see separate engine manual for proper fuel and engine oil recommendations.

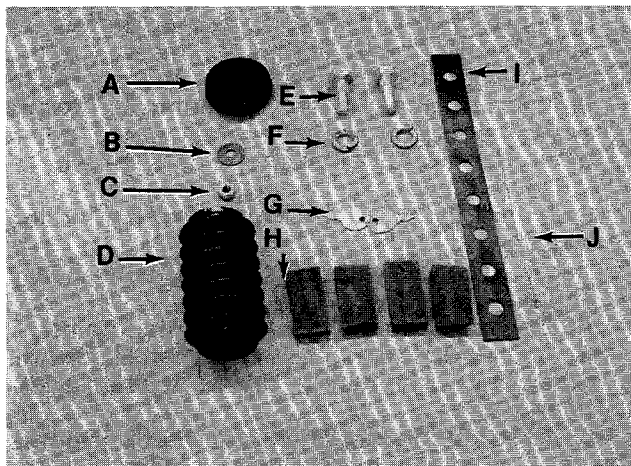


FIGURE 1.

## ASSEMBLY



#### NOTE

Reference to right hand or left hand side of machine is from the driver's seat facing forward.

#### Contents of Hardware Pack:

← (See Figure 1)

- A (1) Steering Wheel Cap
- B (1) Belleville Washer
- C (1) Hex Lock Nut 5/16-24 Thread
- D (1) Steering Bellow
- E (2) Hex Bolts 1/2-13 Thread
- F (2) Lock Washers 1/2" I.D.
- G (2) Ignition Keys
- H (4) Foam Strips
- I (1) Battery Strap
- J (1) Cable Tie

#### Loose Parts in Carton:

- K (1) Battery Pack (Not Shown)
- L (1) Steering Wheel (Not Shown)
- M (1) Seat (Not Shown)

#### BATTERY INFORMATION



**WARNING**

- A. Battery acid must be handled with great care as contact with it can burn and blister the skin. It is also advisable to wear protective clothing (goggles, rubber gloves and apron) when working with it.\*
- B. Should battery acid accidentally splatter into the eyes or onto the face, rinse the affected area immediately with clean cold water. If there is any further discomfort, seek prompt medical attention.

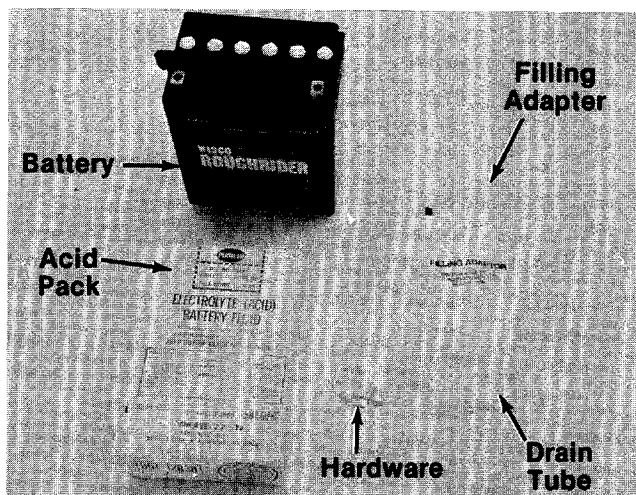


FIGURE 2.

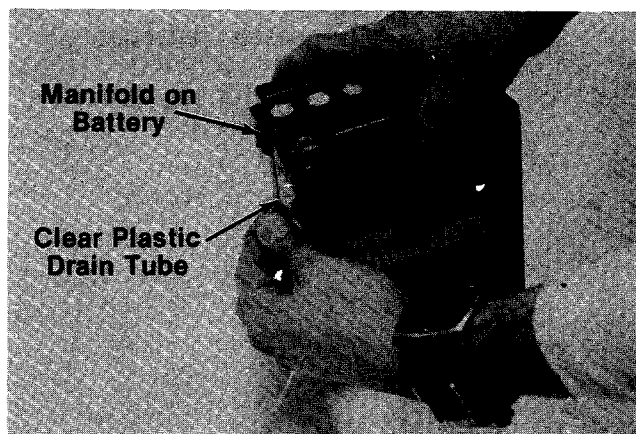


FIGURE 3.

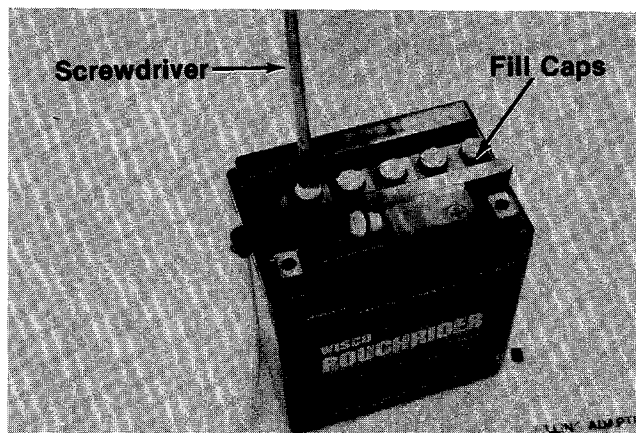


FIGURE 4.

- C. If acid spills on clothing, first dilute it with clean water, then neutralize with a solution of ammonia/water or baking soda/water.
- D. Since battery acid is corrosive, do not pour it into any sink or drain. Before discarding empty electrolyte containers, rinse them with a neutralizing solution.
- E. NEVER connect or disconnect charger clips to battery while charger is turned on as it can cause sparks.
- F. Keep all lighted materials (cigarettes, matches, lighters) away from the battery as the hydrogen gas generated during charging can be combustible.
- G. As a further precaution, only charge the battery in a well-ventilated area.

**\*Always shield eyes, protect skin and clothing when working near batteries.**

#### ACTIVATING AND INSTALLING THE BATTERY

1. Upon opening the battery pack, you should receive acid pack, battery, drain tube, filling adapter and hardware. See figure 2.



**BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added).**

2. Place the battery on table or workbench to be filled.
3. Place one end of clear plastic drain tube on manifold of battery. See figure 3.



Some batteries may already have the drain tube installed, in which case it may be necessary to snip off the sealed end.

4. Remove the six fill caps from the top of the battery with a screwdriver. Care should be taken not to damage the fill caps. See figure 4.

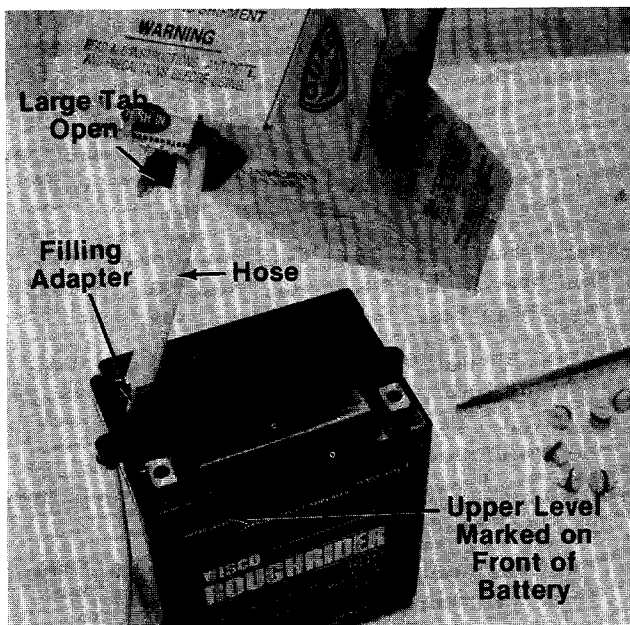


FIGURE 5.



Battery contains sulfuric acid. Refer to warning on page 4. Antidote: EXTERNAL—Flush with water. INTERNAL—Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Seek prompt medical attention. EYES: Flush with cool water for at least 15 minutes, then seek immediate medical attention.

Since batteries produce explosive gases, keep all lighted materials (cigarettes, lighters, matches, etc.) away. Be sure to charge battery only in well-ventilated areas.

**KEEP BATTERIES  
OUT OF THE REACH OF CHILDREN!**

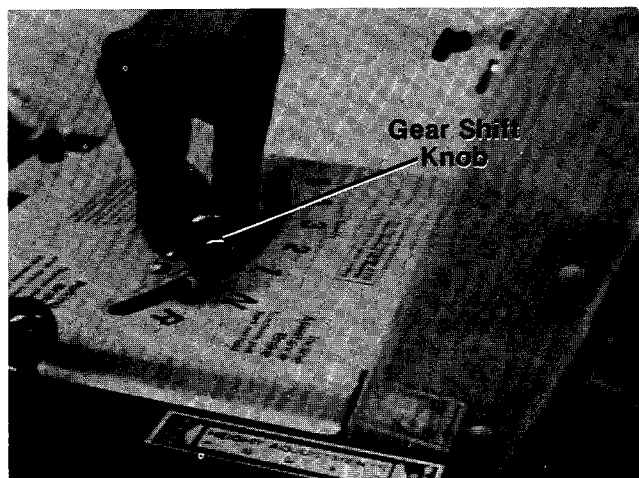


FIGURE 6.

5. Lay acid package down, with "push in" facing up. Using thumb, push in small perforated tab at dot on front of package. Tear down large tab to solid line, exposing hose. **Do not** use any sharp object to open acid package.
6. Pull out hose from package and hold upright. Squeeze hose forcing all acid back into package. Cut off tip of hose and insert filling adapter. See figure 5.
7. Fill each cell to upper level marked on front of battery. Replace fill caps on battery. See figure 5.
8. Allow battery to sit for 20 to 30 minutes. Add additional acid, if necessary, to bring it up to the proper level.
9. The battery can be charged after the 20 minutes sitting period. **SLOW CHARGE THE BATTERY (DO NOT FAST CHARGE)** at a maximum bench rate of 1.4 amperes until the specific gravity reading is 1.260-1.280. Charge for a minimum of 2 hours and a maximum of 8 hours.

**NOTE**

Charging rate after battery has been put into operation: The battery is to be charged for a period of 14-16 hours. **NO LONGER THAN 30 HOURS.**

**CAUTION**

After battery has been in service, add only distilled water. **DO NOT ADD ACID.**

**NOTE**

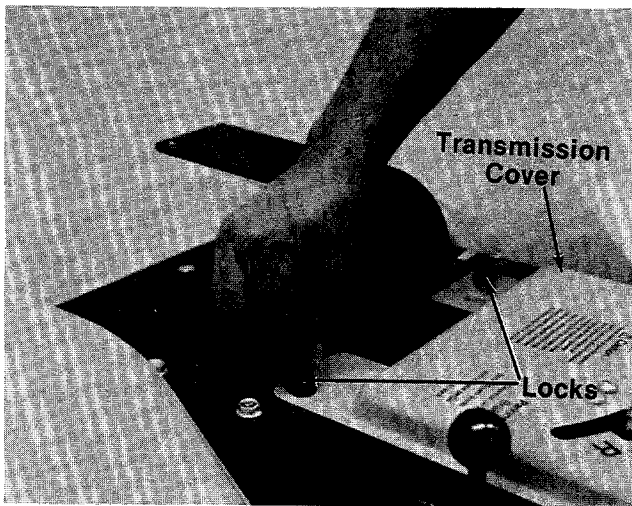
This engine is equipped with a dual circuit alternator. The current for the battery charger alternator is unregulated and is rated at 3 amperes at 3600 r.p.m. During normal operation, it is only necessary to charge the battery:

1. When it is activated for the first time.
2. Before winter storage.
3. Before using the lawn tractor after winter storage.

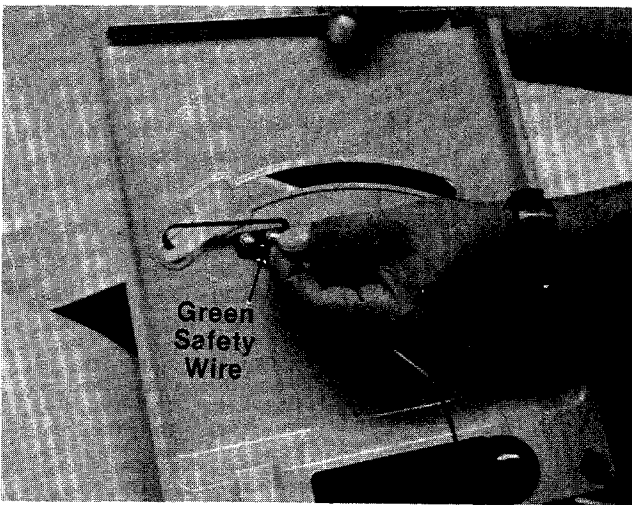
**INSTALLING THE BATTERY**

1. Place gear shift lever in the "neutral" position. Unscrew the gear shift knob. See figure 6.

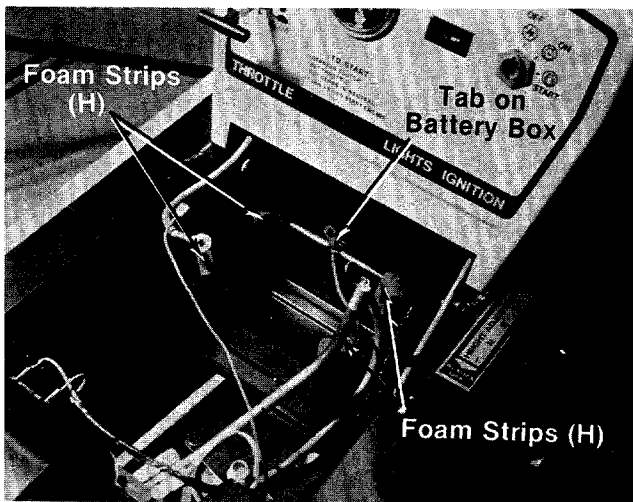




**FIGURE 7.**



**FIGURE 8.**



**FIGURE 9.**

2. Push down and turn the locks on the transmission cover one-quarter turn. See figure 7.

3. Lift the transmission cover. Unplug the green safety wire from beneath the transmission cover. See figure 8. Remove transmission cover.

4. Install the four foam strips (H) into the battery box as follows.

- Using a cloth, clean the inside of the battery box with a thinner or solvent.
- Peel the paper off the foam strips to expose the adhesive backing. Press foam strips firmly into the corners of the battery box. See figure 9.

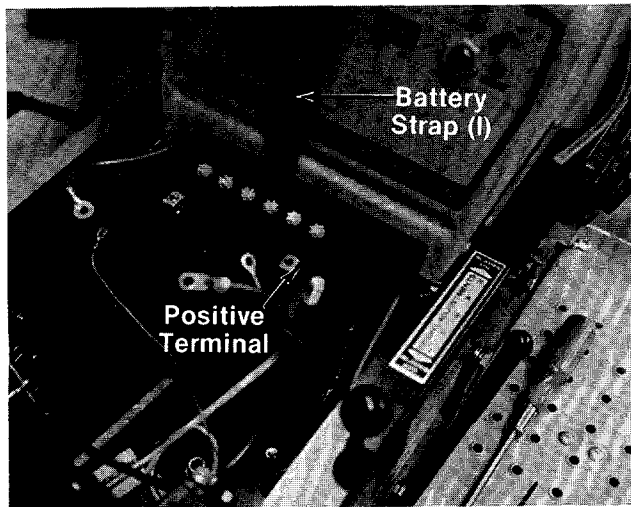


FIGURE 10.

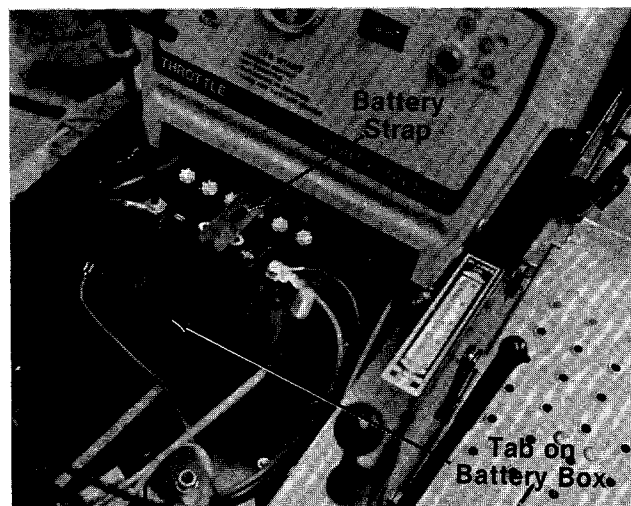


FIGURE 11.

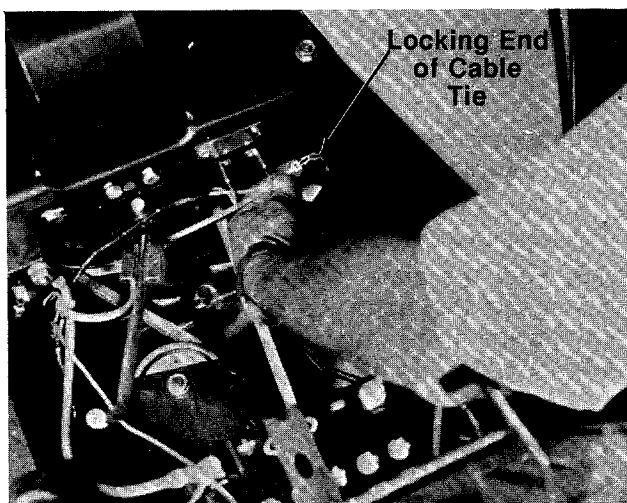


FIGURE 12.

5. Loop one end of battery strap (I) around the tab on battery box shown in figure 9. Hold the battery strap out of the way. Place the battery in the lawn tractor so that the positive terminal is facing the right side of the unit. See figure 10.



Right and left hand sides of the unit are determined by sitting on the seat in the operating position, facing forward.

6. Secure the battery to the battery box by stretching the battery strap across the battery. Loop the end around the tab on the side of the battery box. See figure 11.
7. Slide the square nut (provided with battery hardware) into the positive (+) terminal. Place the positive (heavy red wire) cable and the small red wire on the positive terminal. Secure with screw and lock washer provided. See figure 11.
8. Slide the square nut (provided with battery hardware) into the negative (-) terminal. Place the negative (heavy red wire) cable on the negative terminal. Secure with screw and lock washer provided.

9. Attach the battery drain tube to the manifold of the battery, on the left hand side. Push the locking end of cable tie (J) through the hole in the left frame as shown in figure 12. Route the battery drain tube back to the cable tie. Place end of cable tie through the slot so a loop is formed around the drain tube to secure it. Tighten cable tie and cut off excess end.
10. Plug the green safety wire into the switch beneath the transmission cover. Refer to figure 8. Replace the transmission cover and gear shift knob.



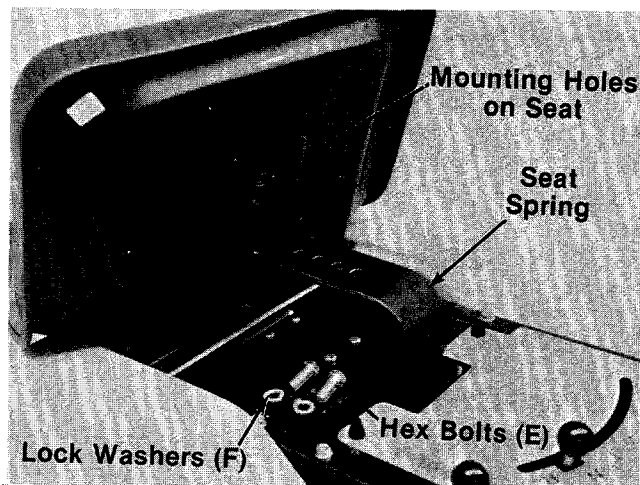


FIGURE 13.

### SEAT INSTALLATION

The seat may be adjusted to three different positions. Select desired position and secure to seat spring with hex bolts (E) and lock washers (F). See figure 13.

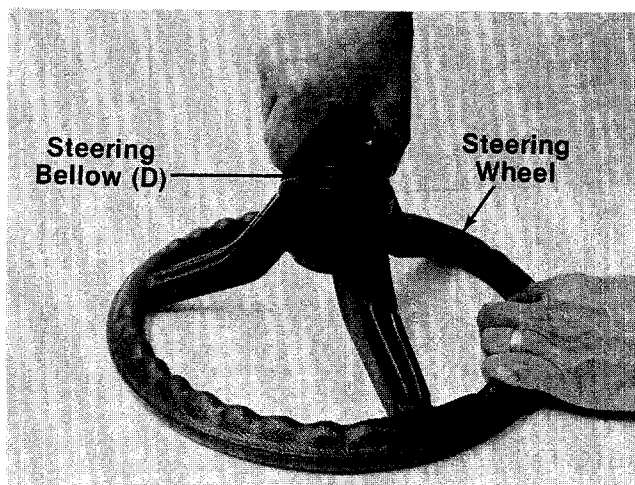


FIGURE 14.

### STEERING WHEEL INSTALLATION

1. Attach steering bellow (D) to the steering wheel as shown in figure 14.



One end of the steering bellow is slightly larger than the other. The larger end must be assembled to the steering wheel.

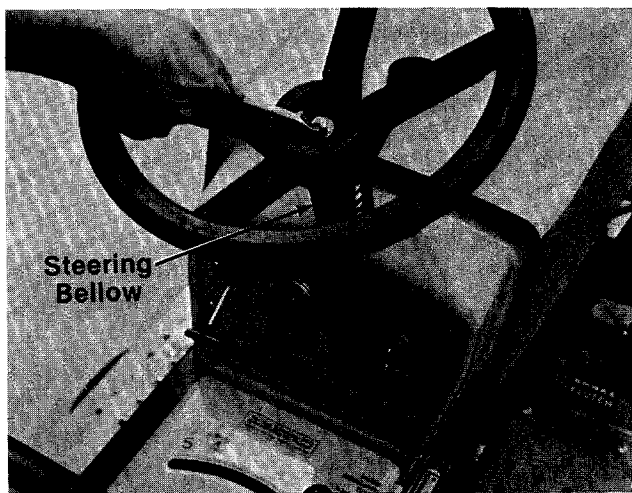


FIGURE 15.

2. Place steering wheel and bellow on the steering shaft, lining up the flats in the wheel with the flats on the shaft.
3. Secure with belleville washer (B) (cupped side against the steering wheel) and hex nut (C). See figure 15.
4. Press the steering wheel cap (A) on the steering wheel by hand.

# CONTROLS

## THROTTLE CONTROL

The throttle control is used to regulate the engine speed and to activate the choke on the engine. To get maximum efficiency from cutting, the throttle should be in the FAST position when operating the mower. Pushing the throttle all the way forward past FAST, will choke the engine. See figure 16.

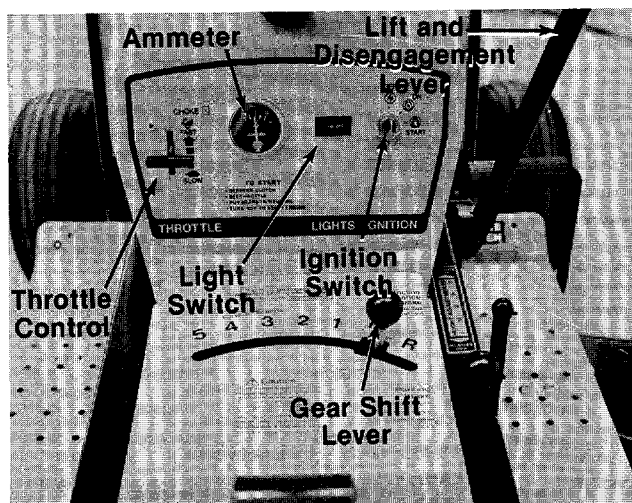


FIGURE 16.

## GEAR SHIFT LEVER

The gear shift lever is used to shift into one of five Forward Gears, "NEUTRAL" or "REVERSE." See figure 16.

## IGNITION SWITCH

Turn the key to the "START" position to start the engine. When the engine is running, let the key return to the "ON" position. To stop the engine, turn the key to the left to the "OFF" position and remove it to prevent accidental starting. See figure 16.

## LIGHT SWITCH

Push the light switch to turn on the lights. The lights will only operate when the engine is running. See figure 16.

## AMMETER

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus side (+) when the engine is running in the fast position until the battery is completely charged. With a fully charged battery or with the engine idling, the ammeter will not show a charge. See figure 16.

## CLUTCH-BRAKE PEDAL

The clutch-brake pedal is located on the right side of the lawn tractor. Depressing the clutch-brake pedal part way disengages the clutch. Pressing the pedal all the way down disengages the clutch and engages the disc brake. See figure 17.



The clutch-brake pedal must be depressed to start the engine.

## PARKING BRAKE

To set the parking brake, depress the clutch-brake pedal and press the parking brake knob down. To release the parking brake, depress and release the clutch-brake pedal. See figure 17.

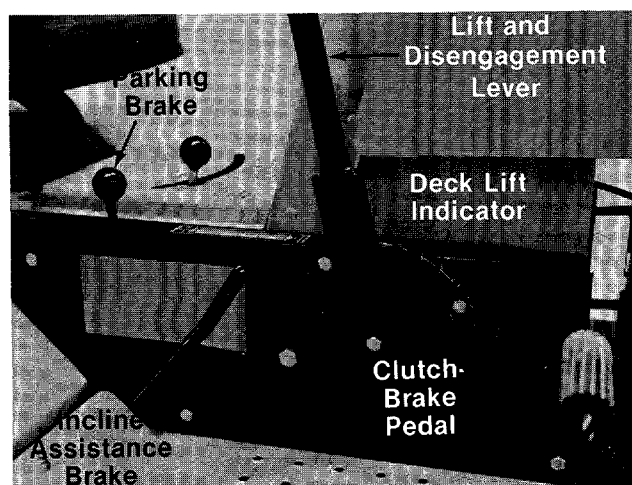


FIGURE 17.

## INCLINE ASSISTANCE BRAKE

When stopping on a hill, hold the incline assistance brake lever back while you release the clutch-brake pedal until the lawn tractor begins to move, then release the lever. This lever permits smoother starts by helping hold the lawn tractor while the clutch is being engaged. See figure 17.

## INTERLOCKS (Not Shown)

Interlock safety switches are located on the clutch-brake pedal, and the lift and disengagement lever and gear shift lever.

Before the engine will start, the clutch-brake pedal must be depressed all the way and the lift and disengagement lever must be in the disengaged position.

Before the unit can be shifted into reverse, the lift and disengagement must be in the disengaged position.

## CUTTING CONTROLS

### A. LIFT AND DISENGAGEMENT LEVER

The lift and disengagement lever is used to raise and lower the cutting deck. Pulling it all the way back and locking it disengages the blades. The lift and disengagement lever **must** be in the disengaged position when starting the engine and when shifting into reverse. See figure 16.

### B. DECK LIFT INDICATOR

The deck lift indicator marks the position being used for the lift lever. Select the lift lever position desired, press the indicator lever outward, move it to the position immediately below the lift lever and release the indicator lever. See figure 17.

### C. WHEEL HEIGHT ADJUSTER

Move the lever towards the wheel and set it in the desired height. See figure 18.

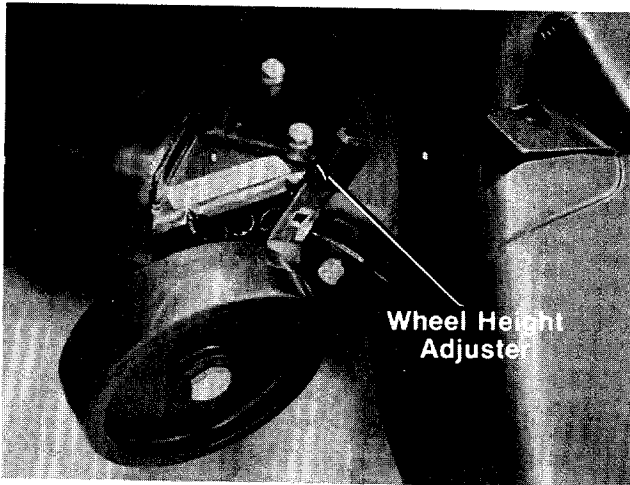


FIGURE 18.

### D. SETTING THE CUTTING HEIGHT

1. Select the position for the lift lever which gives the desired cutting height. Move the deck lift indicator so that the lift lever can be returned to the same position after it is raised.
2. Set the wheel height adjusters on the deck so that the wheels are  $\frac{1}{4}$  to  $\frac{1}{2}$  inch above the ground.

## OPERATION



### CAUTION

1. Keep all shields in place.
2. Before leaving operator's position:
  - a. Shift transmission to neutral
  - b. Set parking brake
  - c. Disengage attachment clutch
  - d. Shut off engine
  - e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

### TIRE PRESSURE

For shipping purposes, the tires on your unit may be over-inflated. Tire pressure should be reduced before unit is put into operation. Pressure should be approximately 15 p.s.i. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.

### STARTING THE ENGINE



To open the hood, simply lift up on both sides of the hood.

1. Service the engine with oil and gasoline as described in the engine manual.
2. Open the fuel shut-off valve (turn counter-clockwise). See figure 19.

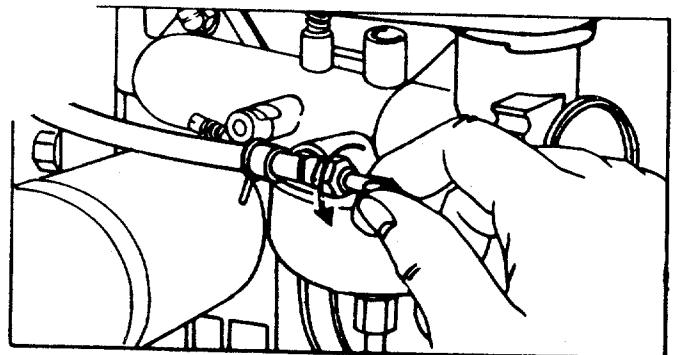


FIGURE 19. FUEL SHUT-OFF VALVE

3. Depress the clutch-brake pedal and set the parking brake. See figure 17.
4. Place the lift and disengagement lever in the DISENGAGED position. See figure 17.



#### NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the lift and disengagement lever is in the disengaged position. In addition, the lift and disengagement lever must be in the disengaged position when the unit is put into reverse or the engine will shut off.



#### WARNING

Do not operate the lawn tractor if the interlock system is malfunctioning because it is a safety device, designed for protection.

5. Set the throttle control in the CHOKE position. See figure 16.
6. Turn the ignition key to the "START" position. When the engine is running, let the key return to the "ON" position. See figure 16.
7. Move the throttle control lever to desired engine speed.

### STOPPING THE ENGINE

Turn the ignition key to the left to the "OFF" position. Remove the key to prevent accidental starting.



#### NOTE

A brief break-in period is essential to ensure maximum engine and mower life. The break-in consists of running the engine at half speed for a period of time required to use one tank of gasoline. It is also recommended to change crankcase oil after the first 5 hours of operation.



#### IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the unit for any damage, and repair the damage before restarting and operating the mower.

### OPERATING THE MOWER

1. Set the desired cutting height.
2. Start the engine as instructed on page 11.
3. Move throttle control to desired engine speed.
4. Depress the clutch-brake pedal and shift into first gear or reverse.
5. Release clutch-brake pedal slowly to put unit into motion.
6. Depress the clutch-brake pedal when shifting gears.



#### NOTE

Do **not** force the gear shift lever!

7. The lawn tractor is brought to a stop by depressing the clutch-brake pedal. The drive belt will be disengaged and the brake will be applied.



#### CAUTION

If the unit is not to be used for a long period, place the gear shift lever in NEUTRAL, stop the engine, set the parking break and remove the key. **DO NOT** leave the machine on an incline.

### OPERATING THE CUTTING BLADES

The cutting blades may be engaged while the lawn tractor is moving or standing still. **DO NOT** engage the cutting blades abruptly as the sudden belt tension on the pulley may cause the engine to stall.



#### WARNING

When the blade drive is engaged, keep feet and hands away from the discharge opening, the blades or any part of the deck.

Move the lift and disengagement lever into the DISENGAGED position to raise the deck and disengage the blades.



#### NOTE

When the machine is used for other than mowing operations, the blade drive should be disengaged.

GRASS CATCHER Model 015 is available as optional equipment for the lawn tractor shown in this manual.



#### WARNING

The mower should not be operated without the entire grass catcher or chute deflector in place.



#### NOTE

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0121.

## ADJUSTMENTS

### SEAT ADJUSTMENT

The seat may be adjusted to one of three positions. Remove hex bolts and lock washers from under seat spring.

After desired seat location is selected, secure seat to seat spring with lock washers and hex bolts. A 3/4" or adjustable wrench is required. Refer to figure 13.

### STEERING WHEEL ADJUSTMENT

There are three height positions for the steering wheel. To adjust the height of the steering wheel, remove the hairpin cotter and clevis pin shown in figure 20. Place the steering wheel in the position desired and secure with hairpin cotter and clevis pin.

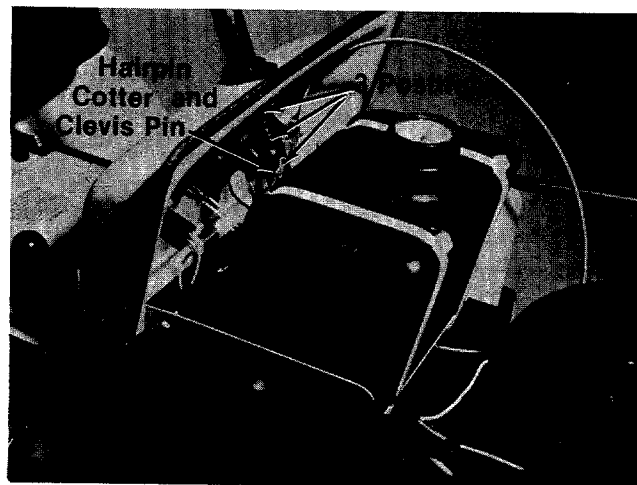


FIGURE 20.

### WHEEL ADJUSTMENT

The caster (forward slant of the king pin) and the camber (tilt of the wheels out at the top) require no adjustment. Automotive steering principles have been used to determine the caster and camber on the tractor. The front wheels should toe-in 1/8 inch.

To adjust the toe-in, follow these steps.

1. Remove the hex nut and lock washer, and drop the tie rod end from the wheel bracket. See figure 21.

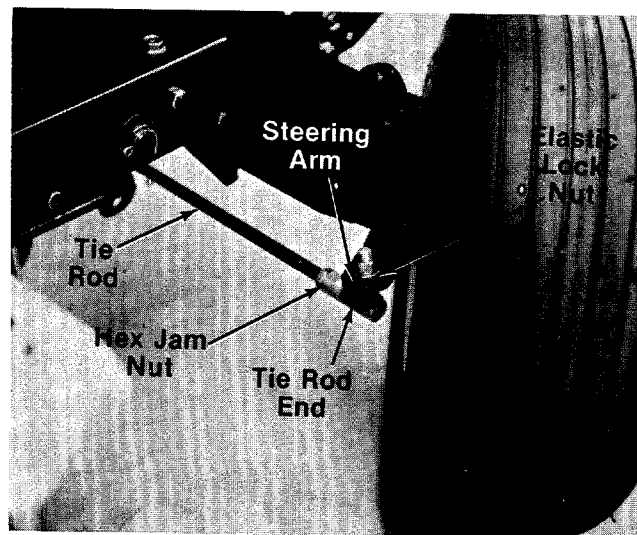
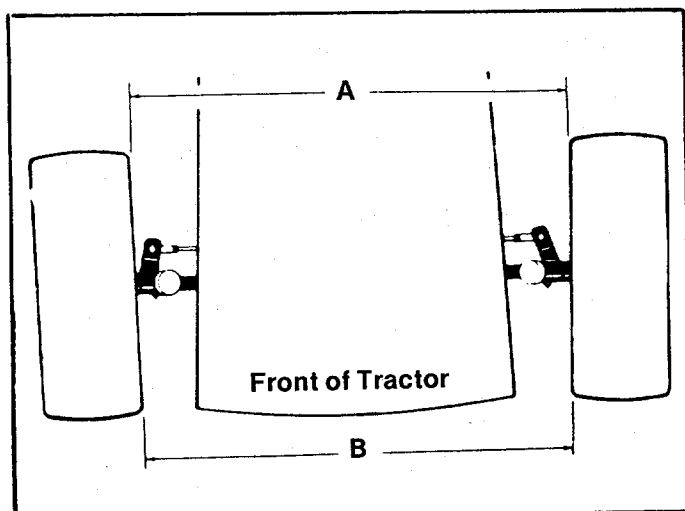


FIGURE 21.

2. Loosen the hex jam nut on tie rod.
3. Adjust the tie rod assembly for correct toe-in.



**FIGURE 22. TOE-IN DIAGRAM**

Dimension "B" should be approximately 1/8" less than Dimension "A." See figure 22.

- To increase Dimension "B," screw tie rod into tie rod end.
- To decrease Dimension "B," unscrew tie rod from tie rod end.
- Reassemble tie rod. Check dimensions. Readjust if necessary.

### CARBURETOR ADJUSTMENT



**WARNING**

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. To adjust the carburetor, refer to the separate engine manual packed with your unit.

### BRAKE ADJUSTMENT

During normal operation of this machine, the brake is subject to wear and will require periodic examination and adjustment.



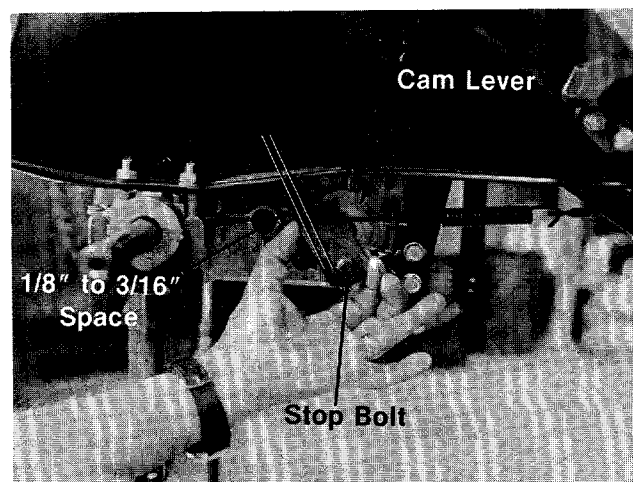
**CAUTION**

Do not have the engine running when you adjust the brake.

To adjust the brake, proceed as follows.

- Tighten the inside nut until the cam lever can not be moved by hand.

- Loosen the inside nut until the cam lever can be pushed forward so that there is a 1/8" to 3/16" space between the cam lever and stop bolt. See figure 23.



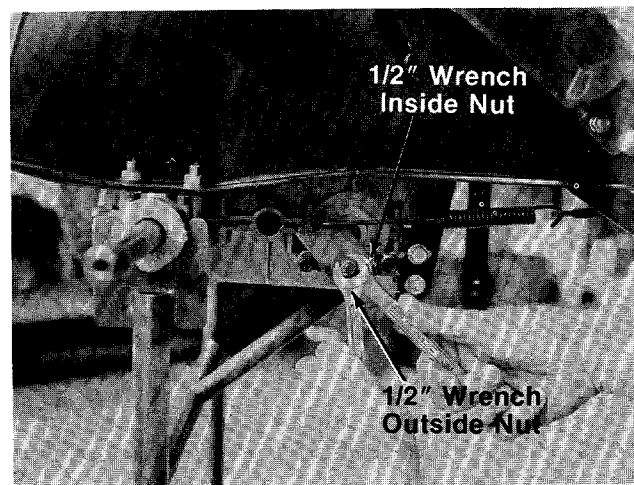
**FIGURE 23.**

- Tighten the outside nut against the inside nut, using two 1/2" wrenches. See figure 24.



**NOTE**

Friction pads must be replaced when the inside of cam lever touches the housing.



**FIGURE 24.**

## LUBRICATION

### STEERING GEARS

Lubricate teeth of steering gears with automotive multi-purpose grease after every 25 hours of operation or once a season. See figure 25.

### STEERING SHAFT

Lubricate steering shaft at least once a season with light oil.



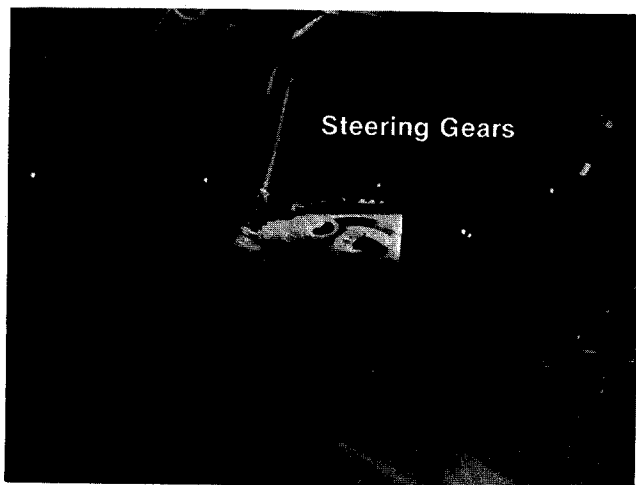


FIGURE 25.

### TRANSAXLE

The transaxle is lubricated and sealed at the factory and does not require checking. If disassembled for any reason, lubricate with 24 oz. of E.P. Lithium grease.

### PIVOT POINTS

Lubricate all pivot points with light oil at least once a season.

## MAINTENANCE



Disconnect the spark plug wire and ground against the engine before performing any repairs or maintenance.

### CRANKCASE OIL

Check the oil level in the crankcase before each use of the machine and after every five hours of operation. Oil level should be maintained as instructed in the separate engine manual.

After the first five hours of operating a new engine, drain the oil from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil every 25 hours of operation. Refer to the engine manual.

### AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. To service the air cleaner, refer to the separate engine manual packed with your unit.

## CLEANING ENGINE AND BLADE HOUSING

Any fuel or oil spilled on the machine should be wiped off promptly. Grass, leaves, and other dirt must not be left to accumulate around the cooling fins of the engine or on any part of the machine.

Clean the underside of the blade housing after each mowing.

### SPARK PLUG

The spark plug should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

### CUTTING BLADE

#### A. Removal for Sharpening or Replacement



Be sure to disconnect and ground the spark plug wire and remove ignition key before working on the cutting blade to prevent accidental engine starting.

1. Remove the large bolt and lock washer which holds the blade and adapter to the blade spindle.
2. Remove the blade and adapter from the spindle. Be careful not to lose the key on the spindle.
3. If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

#### B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

The blade can be tested for balance by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.



It is recommended that the blade always be removed from the adapter for the best test of balance.

### C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the spindle and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position. Make certain key is in place on the crankshaft.

#### Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.

5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, ALL nuts and bolts must be checked periodically for correct tightness.

### BELT REMOVAL AND REPLACEMENT



**WARNING**

Disconnect the spark plug wire and ground it against the engine.



**NOTE**

Figures 26 through 30 were photographed with the unit tipped up for clarity. It is not necessary to tip the unit to remove the belts.

#### Removing the Deck Belt

1. Place the lift lever in the disengaged position.
2. Remove the two J-bolts (belt keepers) from the engine pulley belt guard. See figure 26.

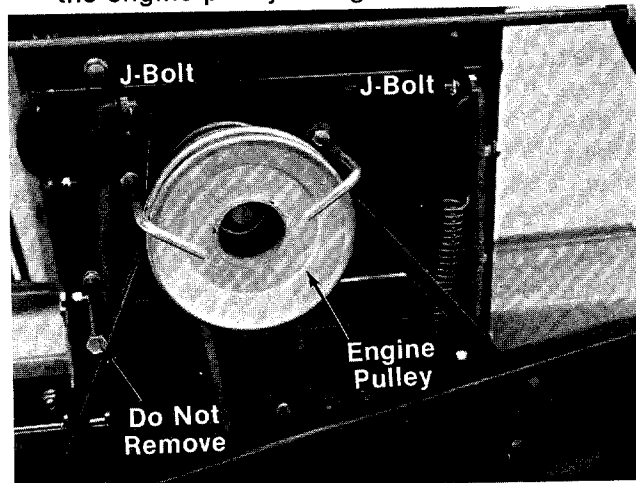


FIGURE 26.

3. Unhook the deck belt from the engine pulley.
4. Place the lift lever in the engaged (all the way forward) position.
5. Disconnect the six deck links by removing the hairpin cotters and flat washers. See figure 27.
6. Slide the deck from beneath the lawn tractor.
7. Remove the belt guards at each deck pulley by removing the hex bolts, lock washers and hex nuts. See figure 27.
8. Remove and replace the belt, following the instructions in reverse order.

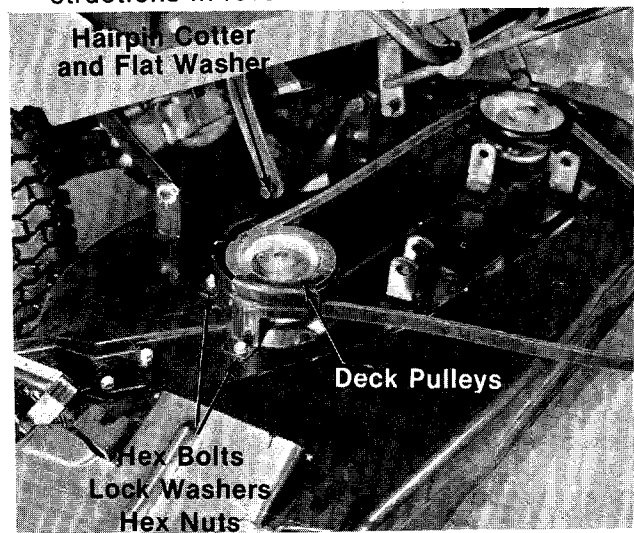


FIGURE 27.

#### Removing the Drive Belt

1. Follow steps 1 through 3 on removing the deck belt.
2. Remove the two bolts, lock washers and nuts on each side of the frame which hold the engine pulley belt guard to the frame. See figure 28.

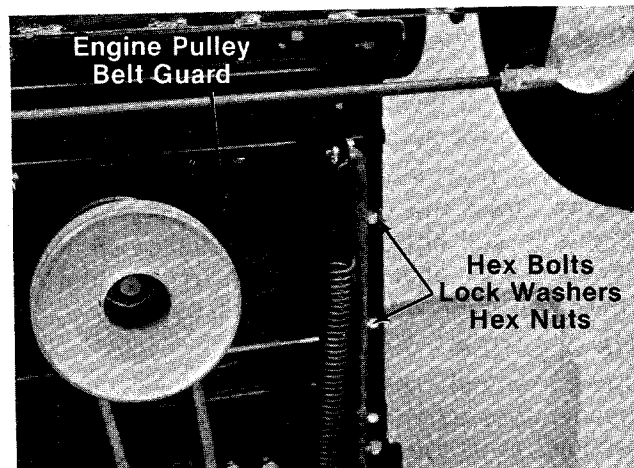
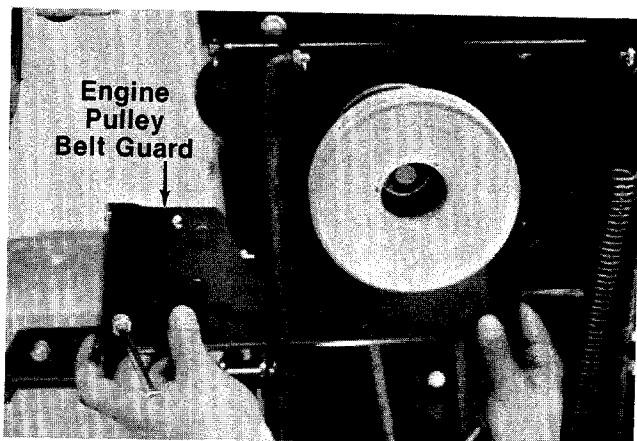


FIGURE 28.

3. Remove the engine pulley belt guard by slipping it back and to the right. See figure 29.

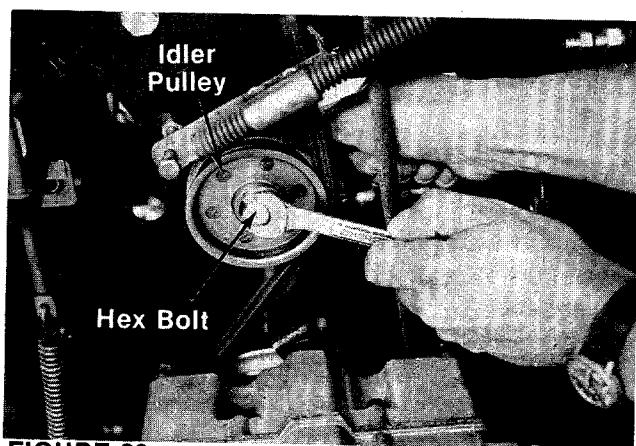


**FIGURE 29.**

4. Remove the bolt, lock washer and nut which hold the idler pulley to the idler bracket. See figure 30.

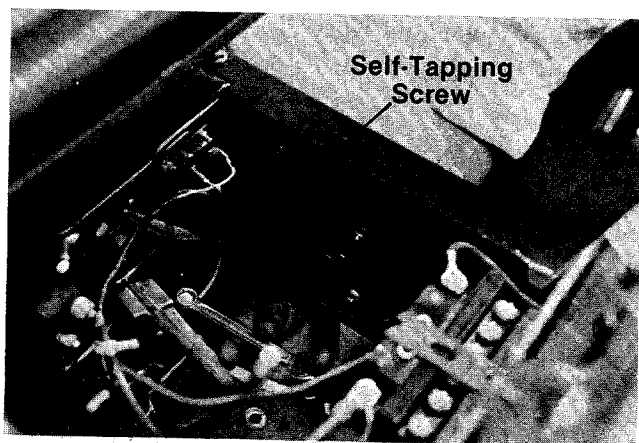


Upon reassembly, the hub side of the idler pulley must be assembled against the idler bracket.



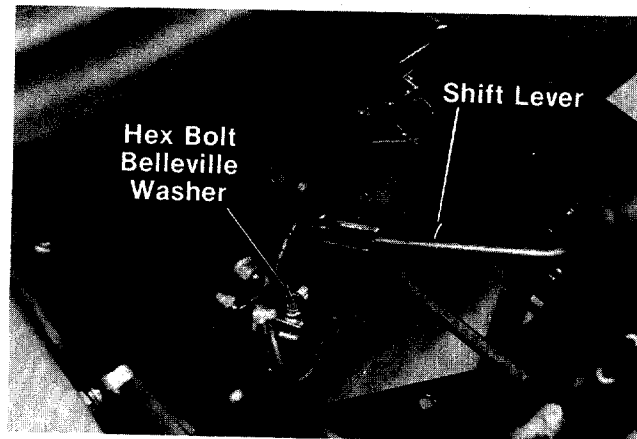
**FIGURE 30.**

5. Remove two self-tapping screws which hold the transaxle belt guard to the top of the transaxle. See figure 31.



**FIGURE 31.**

6. Remove the transaxle shift lever by removing the hex bolt and belleville washer. Lift off the special "D" washer. See figure 32.



**FIGURE 32.**

7. Slide the transaxle belt guard back. Remove the belt from the engine pulley. Lift the belt up and over the transaxle pulley. See figure 33.

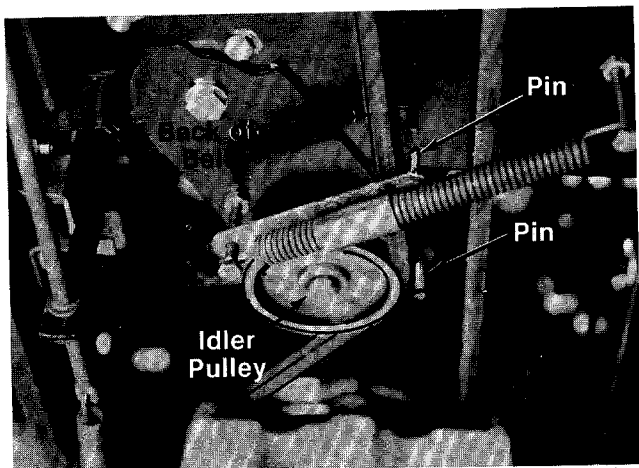


**FIGURE 33.**

8. Reassemble with a new belt, following instructions in reverse order.



The belt must be reassembled as shown in figure 34, with the back of the belt (flat side) against the idler pulley. The belt must be inside the pins. Failure to assemble the belt correctly will damage the belt.



**FIGURE 34.**

### BATTERY REMOVAL OR INSTALLATION



When removing the battery, follow this order of disassembly to prevent the screwdriver from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

### JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.



Failure to use this starting procedure could cause sparking, and the gas in either battery could explode.

### BATTERY MAINTENANCE

1. Check periodically (every two weeks or before and after charging) to be sure electrolyte level is above the lowest line on battery. Add only distilled water or a good quality drinking water. NEVER add additional acid or other chemicals to battery after initial activation.

2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, remove battery and recharge.
3. Coat the terminals and exposed wiring with a thin coat of grease or petroleum jelly for longer service and protection against electrolyte corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.

### BATTERY STORAGE

1. Charge battery using normal methods. NEVER store discharged battery as it will not recover.
2. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
3. Store in cold, dry place.
4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service, or every two months, whichever occurs first.

### COMMON CAUSES FOR BATTERY FAILURE ARE:

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose holds downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte



THESE FAILURES DO NOT CONSTITUTE WARRANTY.

### INSTALLATION OF TIRE TO RIM



The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

# OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following precautions are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in carburetor is exhausted.

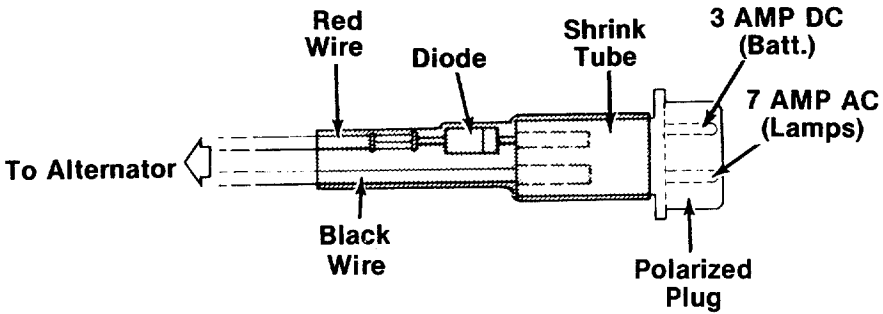


**WARNING**

Do not drain fuel while smoking, or if near an open fire.

2. Disconnect the spark plug wire and remove the spark plug from the cylinder. Pour about six drops of engine oil into the cylinder, and crank slowly to distribute oil. Replace the spark plug, but **DO NOT** connect the wire.
3. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm). Refill the crankcase with clean new oil.
4. Clean the engine and the entire unit thoroughly.  
Lubricate all lubrication points. Wipe the entire machine with an oiled rag in order to protect the surfaces.

# TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

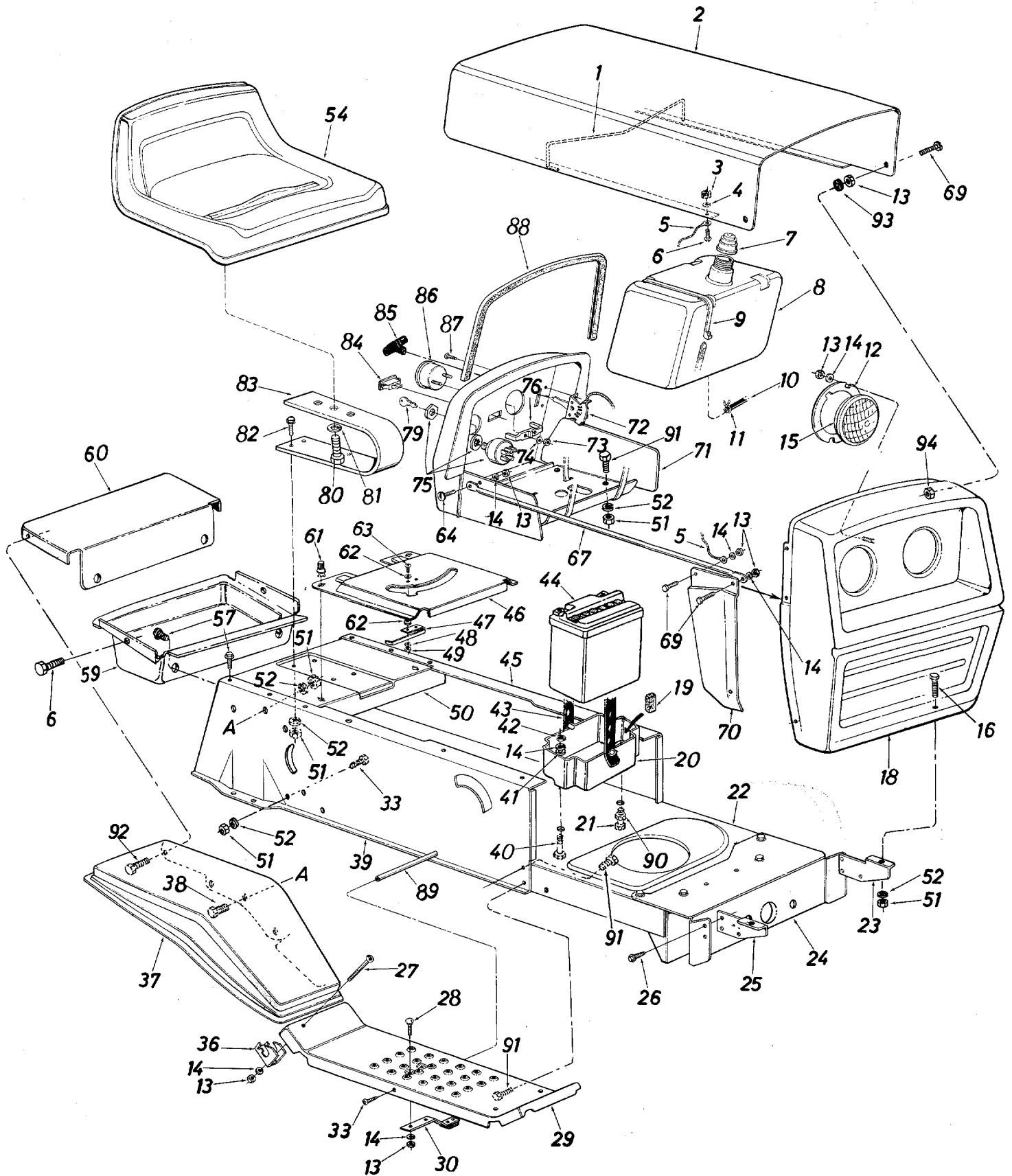
| TROUBLE                          | LOOK FOR                                   | REMEDY  |
|----------------------------------|--|---|
| Engine will not crank            | Battery installed incorrectly              | The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.  |
|                                  | Blow fuse or circuit breaker               | Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrician's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.  |
|                                  | Battery is dead or weak                    | <p>Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger.</p> <p><b>Trickle Charger.</b> Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1½ amp.</p> <p><b>Alternator</b> (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.</p> <div style="text-align: center;">  </div> <p>The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not, the alternator (stator) or lead wire is bad and should be replaced.</p> |
|                                  | Mechanical failure. (Wires and switches)   | The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. <b>WARNING:</b> While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. <b>If the engine does not crank:</b> (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.   |
| Engine cranks but will not start | Throttle or choke not in starting position | Check owner's guide for correct position for throttle control and choke (if separate control) for starting.   |



## TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

| TROUBLE   | LOOK FOR   | REMEDY   |
|---|--|--|
|   | No spark to spark plug   | Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer.<br>Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not. |
|   | No fuel to the carburetor  | Gasoline tank empty. Fill.<br>Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor.<br>Fuel line plugged. Remove and clean.  |
|   | Air filter dirty   | If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.   |
| Engine smokes   | Engine loses crankcase vacuum                                      | Dipstick not seated or broken. Replace defective part.<br>Engine breather defective. Replace.  |
| Excessive vibration                                   | Bent or damaged blade spindle                                      | <b>Stop engine immediately.</b> Check all pulleys, blade spindles, blade adapters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.  |
|   | Bent blade   | <b>Stop engine immediately.</b> Replace damaged blade. Only use original equipment blades.   |
| Mower will not discharge grass or leaves uncut strips | Engine speed low<br>Transmission selection<br>Blades short or dull | Throttle must be set between 3/4 and full throttle.<br>Use lower transmission gear. The slower your ground speed, the better the quality of cut.<br>Sharpen or replace blades (uncut strip problem only).  |

# Model 698



# Model 698

## PARTS LIST FOR MODEL 698 LAWN TRACTOR

| REF. NO. | NEW PART | COLOR CODE | DESCRIPTION                               | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                               | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|---|----------|
| 1        | 732-0414 | —610       | Hood Spring                               | N        | 47       | 725-0759 |            | Reverse Safety Switch                     |          |
| 2        | 14665    |            | Hood                                      | N        | 48       | 736-0147 |            | Ext. L-Wash. #10-24 Thd.*                 |          |
| 3        | 712-0272 |            | Hex Sems Nut #10-24 Thd.*                 |          | 49       | 712-0121 |            | Hex Nut #10-24 Thd.*                      |          |
| 4        | 736-0463 |            | Fl-Wash. .281" I.D. x .62" O.D. x .06     |          | 50       | 14607    | —          | Hitch Plate                               | N        |
| 5        | 723-0302 |            | Hood Stop 7" Lg.                          |          | 51       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                     |          |
| 6        | 710-0437 |            | Truss Hd. Scr. #10-24 x 1/2" Lg.*         |          | 52       | 736-0119 |            | L-Wash. 5/16" I.D.*                       |          |
| 7        | 723-0155 |            | Fuel Cap Gauge                            |          | 54       | 757-0299 |            | Seat Ass'y.                               |          |
| 8        | 751-0172 |            | Fuel Tank                                 |          | 57       | 710-0726 |            | Hex Wash. Hd. AB Tap Scr. 5/16 x .62" Lg. |          |
| 9        | 726-0153 |            | Tie Strap                                 |          | 59       | 731-0561 |            | Tool Tray                                 | N        |
| 10       | 751-0173 |            | Fuel Line                                 | N        | 60       | 14789    | —609       | Fender Panel (Optional)                   | N        |
| 11       | 726-0183 |            | Hose Clamp                                |          | 61       | 726-0151 |            | Fastener                                  |          |
| 12       | 09960    |            | Headlight Retainer                        |          | 62       | 736-0338 |            | Fiber Wash.                               |          |
| 13       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                      |          | 63       | 710-0437 |            | Truss Hd. Scr. #10-24 x .50" Lg.          |          |
| 14       | 736-0329 |            | L-Wash. 1/4" I.D.*                        |          | 64       | 710-0258 |            | Hex Bolt 1/4-20 x .62" Lg.*               |          |
| 15       | 725-0222 |            | Headlight                                 |          | 67       | 749-0517 |            | Grille Support Rod (R.H. & L.H.)          | N        |
| 16       | 710-0118 |            | Hex Bolt 5/16-18 x .75" Lg.*              | N        | 69       | 710-0255 |            | Truss Hd. Scr. 1/4-20 x .75" Lg.*         |          |
| 18       | 14674    |            | Grille Ass'y.                             |          | 70       | 14748    | —          | R.H.—Grille Side Panel                    | N        |
| 19       | 722-0135 |            | Foam Strip                                |          |          | 14749    | —          | L.H.—Grille Side Panel                    | N        |
| 20       | 731-0534 |            | Battery Box                               |          | 71       | 14620    | —609       | Dash Panel Ass'y.                         | N        |
| 21       | 710-0102 |            | Hex Bolt 1/4-20 x 2.50" Lg.*              |          | 72       | 746-0449 |            | Throttle Control Ass'y.                   | N        |
| 22       | 14606    | —609       | Lower Frame                               | N        | 73       | —        |            | Part of Ref. No. 86                       |          |
| 23       | 13863    |            | Grille Mount Brkt.—L.H.                   |          | 74       | —        |            | Part of Ref. No. 86                       |          |
| 24       | 14619    |            | Front Pivot Brkt.                         | N        | 75       | 725-0267 |            | Ignition Switch                           |          |
| 25       | 13862    |            | Grille Mount Brkt.—R.H.                   |          | 76       | —        |            | Part of Ref. No. 86                       |          |
| 26       | 710-0726 |            | Hex Wash. Hd. AB-Tap Scr. 5/16 x .62" Lg. |          | 79       | 725-0201 |            | Ignition Key                              |          |
| 27       | 710-0524 |            | Truss Hd. Scr. 1/4-20 x 1.75" Lg.*        |          | 80       | 710-0493 |            | Hex Bolt 1/2-13 x 1.00" Lg. (2-Req'd.)    |          |
| 28       | 710-0134 |            | Carriage Bolt 1/4-20 x .62" Lg.*          |          | 81       | 736-0921 |            | L-Wash. 1/2" I.D.* (2-Req'd.)             |          |
| 29       | 14604    | —609       | Running Board (R.H. & L.H.)               | N        | 82       | 710-0376 |            | Hex Bolt 5/16-18 x 1.00" Lg.*             |          |
| 30       | 761-0169 |            | Blade Brake Ass'y. (38" Deck Only)        |          | 83       | 732-0354 |            | Seat Spring                               |          |
| 33       | 710-0323 |            | Truss Mach. Scr. 5/16-18 x .75" Lg.*      |          | 84       | 725-0634 |            | Light Switch                              |          |
| 36       | 14671    |            | Fender Clamp                              | N        | 85       | 722-0111 |            | Throttle Control Knob                     |          |
| 37       | 14666    | —609       | Fender (R.H. & L.H.)                      | N        | 86       | 725-0119 |            | Ammeter                                   |          |
| 38       | 710-0118 |            | Hex Bolt 5/16-18 x .75" Lg.*              |          | 87       | 710-0351 |            | Truss Hd. Phil. Scr. #10 x .50" Lg.       |          |
| 39       | 14602    | —609       | R.H. Side Frame                           | N        | 88       | 731-0511 |            | Molding Strip 27" Lg.                     |          |
| 40       | 710-0258 |            | Hex Bolt 1/4-20 x .62" Lg.*               |          | 89       | 738-0526 |            | Running Board Rod                         | N        |
| 41       | 736-0173 |            | Fl-Wash. .281 I.D. x .75" O.D.            |          | 90       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                      |          |
| 42       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                      |          | 91       | 710-0198 |            | Hex Bolt 5/16-18 x .75" Lg.*              |          |
| 43       | 735-0204 |            | Battery Hold Down                         |          | 92       | 710-0599 |            | Thread Rolling Scr. 1/4-20 x .50" Lg.     |          |
| 44       | 725-0514 |            | 12-V Battery                              |          | 93       | 735-0144 |            | Rubber Wash. 1/2" I.D. x 1.0" O.D.        |          |
| 45       | 14603    | —609       | L.H. Side Frame                           | N        | 94       | 712-0324 |            | Hex Sems Inst. L-Nut 1/4-20 Thd.          |          |
| 46       | 14618    | —609       | Transmission Panel                        | N        |          |          |            |   |          |

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(609—Burgundy)  
(610—Rose)

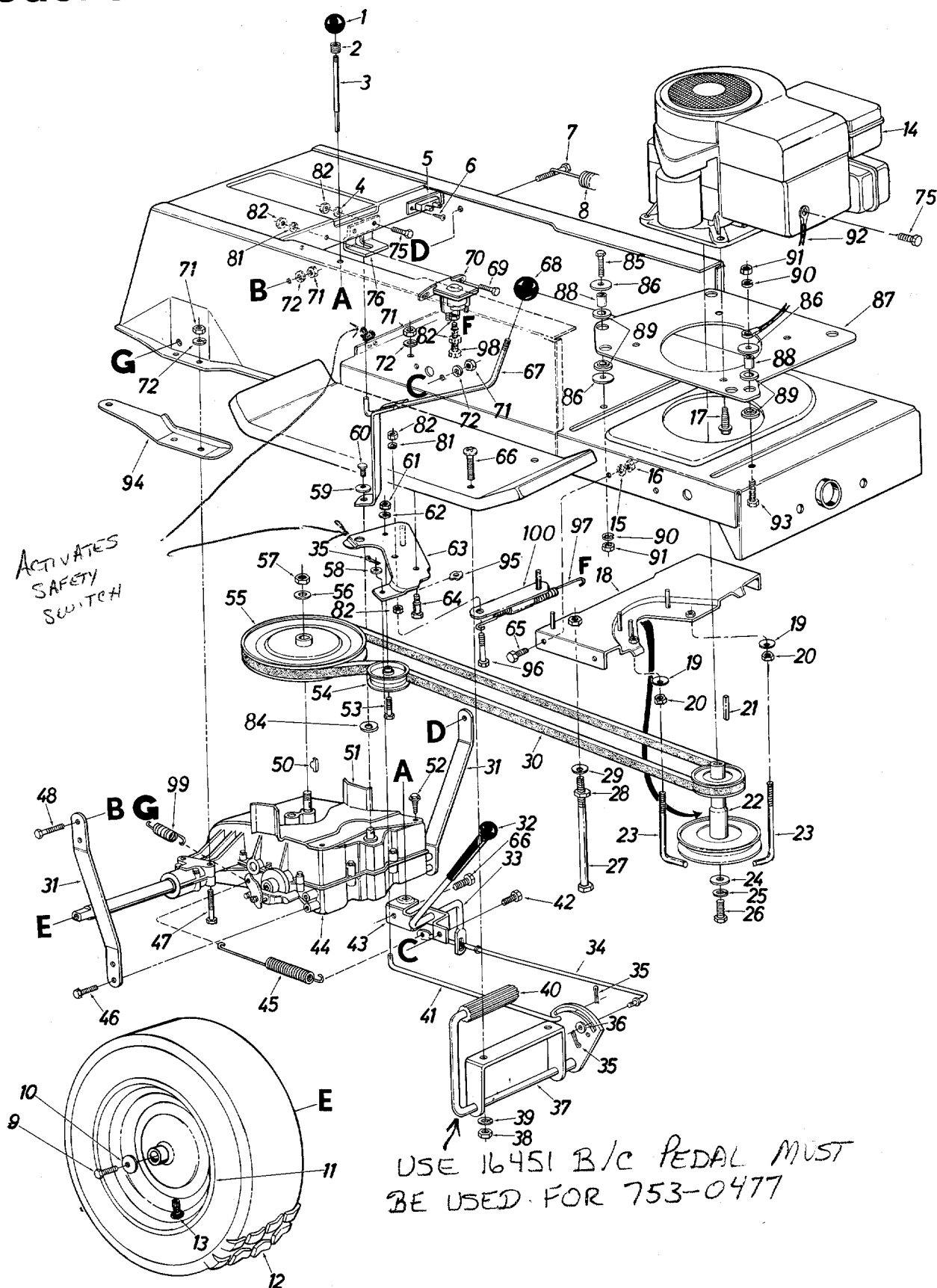
When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Burgundy Finish—14606 (609).)



### NOTE

This instruction manual covers various models, and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

# Model 698



LEFT HAND VIEW

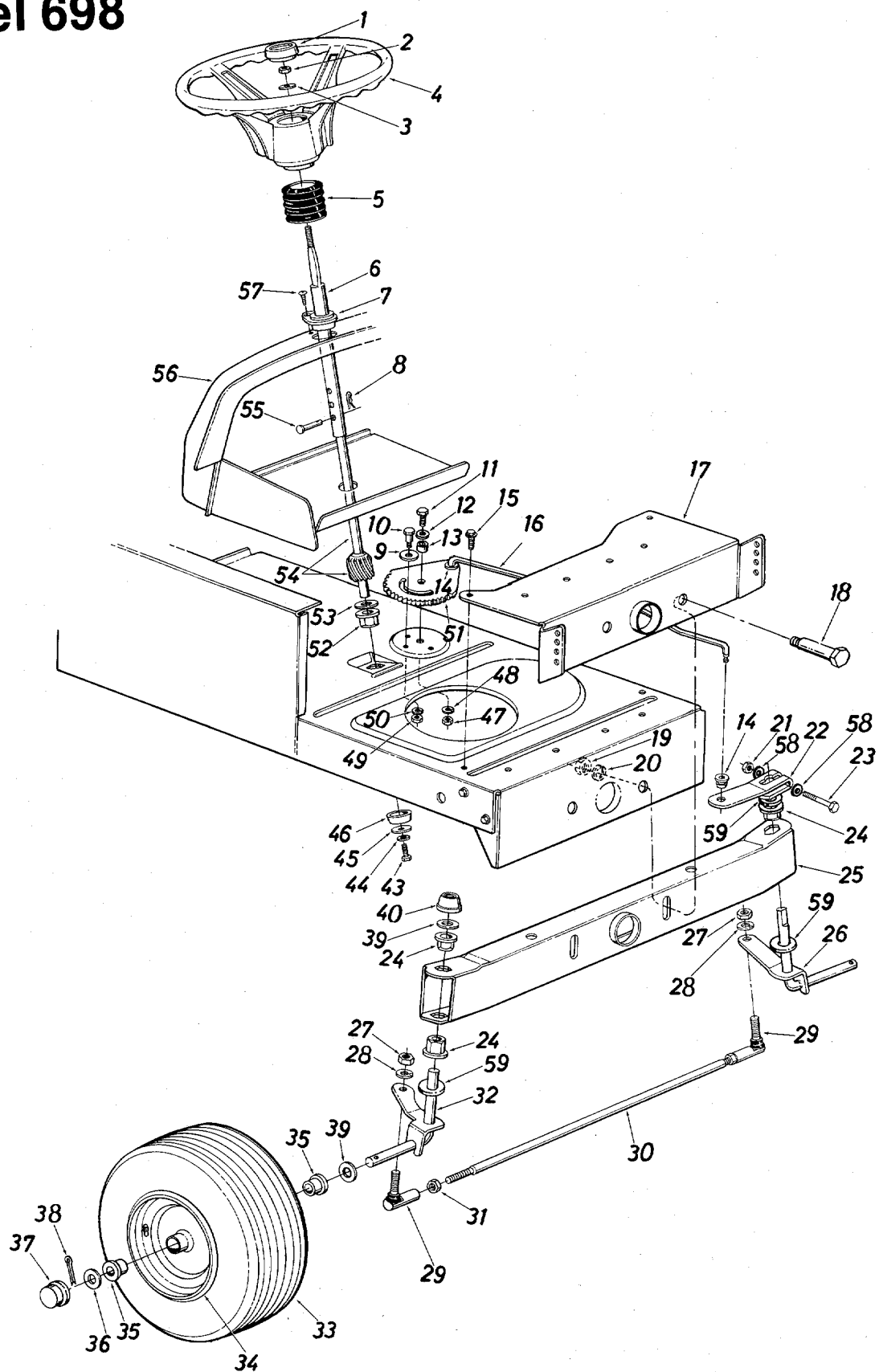
# Model 698

## PARTS LIST FOR MODEL 698 LAWN TRACTOR

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                                | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                                  | NEW PART |
|----------|----------|------------|--|----------|----------|----------|------------|--|----------|
| 1        | 720-0187 |            | Ball Knob 1.25" O.D. x 1/4-20 Thd.         |          | 47       | 710-0378 |            | Hex Bolt 5/16-18 x 2.50" Lg.*                |          |
| 2        | 732-0145 |            | Compression Spring .30" O.D. x 1.00" Lg.   |          | 48       | 710-0198 |            | Hex Bolt 5/16-18 x .75" Lg.*                 |          |
| 3        | 711-0742 |            | Brake Lockout Rod                          | N        | 50       | 714-0129 |            | #4 Hi-Pro Key 3/32 x 5/8" Dia.               |          |
| 4        | 736-0329 |            | L-Wash. 1/4" I.D.*                         |          | 51       | 14631    |            | Transaxle Belt Keeper                        | N        |
| 5        | 725-0459 |            | Circuit Breaker                            |          | 52       | 710-0604 |            | Hex Wash. Hd. Self-Tap Scr. 5/16" x .62" Lg. |          |
| 6        | 710-0351 |            | Truss Hd. Phil Scr. #10 x 1/2" Lg.         |          | 53       | 710-0344 |            | Hex Bolt 3/8-16 x 1.50" Lg.*                 |          |
| 7        | 710-0528 |            | Hex Bolt 5/16-18 x 1.25" Lg. Lg. (Grade 5) |          | 54       | 756-0225 |            | Flat Idler Pulley 3/8" I.D. x 2.75 O.D.      |          |
| 8        | 732-0307 |            | Ext. Spring .99" O.D. x 11.00" Lg.         |          | 55       | 756-0341 |            | Transaxle Pulley                             |          |
| 9        | 710-0627 |            | Hex Bolt 5/16-24 x .75" Lg.*               |          | 56       | 736-0921 |            | L-Wash. 1/2" I.D.*                           |          |
| 10       | 736-0242 |            | Bell-Wash. 5/16" I.D.                      |          | 57       | 712-0922 |            | Hex Nut 1/2-20 Thd.*                         |          |
| 11       | **       |            | Rear Wheel Rim Only                        |          | 58       | 736-0204 |            | Fl-Wash. .331" I.D. x .625" O.D.             |          |
| 12       | **       |            | Rear Wheel Ass'y. Comp.                    |          | 59       | 736-0270 |            | Bell-Wash. .26" I.D. x .75" O.D.             |          |
| 13       | 734-0255 |            | Air Valve (Service Only)                   |          | 60       | 710-0513 |            | Hex Bolt 1/4-28 x .62" Lg.                   |          |
| 14       | —        |            | Engine                                     |          | 61       | 712-0798 |            | Hex Nut 3/8-16 Thd.*                         |          |
| 15       | 736-0329 |            | L-Wash. 1/4" I.D.*                         |          | 62       | 736-0169 |            | L-Wash. 3/8" I.D.*                           |          |
| 16       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                       |          | 63       | 14656    |            | Idler Brkt. Ass'y.                           | N        |
| 17       | 710-0502 |            | Hex Bolt 3/8-16 x 1.25" Lg.*               |          | 64       | 738-0140 |            | Shld. Scr. .437" Dia. x .180" Lg. (5/16-18)  |          |
| 18       | 14643    |            | Belt Guard Brkt. Ass'y.                    | N        | 65       | 710-0258 |            | Hex Bolt 1/4-20 x .62" Lg.*                  |          |
| 19       | 736-0242 |            | Bell-Wash. 5/16" I.D.                      |          | 66       | 710-0323 |            | Truss Hd. Mach. 5/16-18 x .75" Lg.*          |          |
| 20       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                      |          | 67       | 14627    |            | Shift Lever Ass'y.                           | N        |
| 21       | 714-0114 |            | Sq. Key 1/4" x 1/4" x 2.00" Lg.            |          | 68       | 720-0165 |            | Ball Knob 1.25" O.D. x 3/8-16 Thd.           |          |
| 22       | 756-0373 |            | Two Step Engine Pulley                     | N        | 69       | 710-0258 |            | Hex Bolt 1/4-20 x .62" Lg.*                  |          |
| 23       | 710-0836 |            | "J"-Bolt 5/16-18 x 4.90" Lg.               | N        | 70       | 725-0771 |            | Solenoid                                     | N        |
| 24       | 736-0322 |            | Fl-Wash. 7/16" I.D. x 1.25" O.D. x .180    |          | 71       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                        |          |
| 25       | 736-0171 |            | L-Wash. 7/16" I.D.*                        |          | 72       | 736-0119 |            | L-Wash. 5/16" I.D.*                          |          |
| 26       | 710-0757 |            | Hex Bolt 7/16-20 x 1.50" Lg.               |          | 75       | 710-0258 |            | Hex Bolt 1/4-20 x .62" Lg.*                  |          |
| 27       | 710-0833 |            | Hex Bolt 5/16-18 x 5.25" Lg.*              | N        | 76       | 14630    |            | Shift Lever Pivot Brkt.                      | N        |
| 28       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                      |          | 81       | 736-0329 |            | L-Wash. 1/4" I.D.*                           |          |
| 29       | 736-0242 |            | Bell-Wash. 5/16" I.D.                      |          | 82       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                         |          |
| 30       | 754-0266 |            | "V"-Belt "A" Glass 85" Lg. Bare Back       | N        | 84       | 717-0234 |            | Special Wash. 1.00" O.D.                     |          |
| 31       | 14653    |            | Transaxle Brace                            | N        | 85       | 710-0158 |            | Hex Bolt 5/16-24 x 1.25" Lg.*                |          |
| 32       | 720-0143 |            | Grip (Hand Brake)                          | N        | 86       | 736-0343 |            | Fl-Wash. 1.25" O.D. x .320" I.D.             |          |
| 33       | 747-0386 |            | Hill Holder Brake Handle                   | N        | 87       | 14791    |            | Engine Mounting Plate                        | N        |
| 34       | 747-0385 |            | Brake Rod                                  | N        | 88       | 750-0539 |            | Spacer                                       |          |
| 35       | 714-0111 |            | Cotterpin 3/32" Dia. x 1.00" Lg.*          |          | 89       | 722-0153 |            | Engine Mounting Grommet                      |          |
| 36       | 736-0204 |            | Fl-Wash. .331" I.D. x .625" O.D.           |          | 90       | 736-0119 |            | L-Wash. 5/16" Scr.*                          |          |
| 37       | 14623    |            | Brake and Clutch Pedal Ass'y.              | N        | 91       | 712-0123 |            | Hex Nut 5/16-24 Thd.*                        |          |
| 38       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                      |          | 92       | 725-0122 |            | Electric Ground Wire                         |          |
| 39       | 736-0119 |            | L-Wash. 5/16" I.D.*                        |          | 93       | 710-0624 |            | Hex Bolt 5/16-24 x 1.50" Lg.*                |          |
| 40       | 735-0196 |            | Foot Pedal Pad                             |          | 94       | 14770    |            | Transaxle Support Brkt.—R.H.                 |          |
| 41       | 747-0390 |            | Clutch Rod                                 | N        |          | 14769    |            | Transaxle Support Brkt.—L.H. (Not Shown)     |          |
| 42       | 710-0198 |            | Hex Bolt 5/16-18 x .75" Lg.*               |          | 95       | 736-0141 |            | Wave Wash.                                   |          |
| 43       | 14634    |            | Brake Lock and Handle Support Brkt.        | N        | 96       | 710-0102 |            | Hex Bolt 1/4-20 x 2.50" Lg.*                 |          |
| 44       | —        |            | Transaxle Complete                         | N        | 97       | 732-0384 |            | Ext. Spring                                  |          |
| 45       | 732-0413 |            | Ext. Spring .590" O.D. x 7.08" Lg.         |          | 98       | 710-0102 |            | Hex Bolt 1/4-20 x 2.50" Lg.*                 |          |
| 46       | 710-0604 |            | Hex Wash. Hd. AB-Tap Scr. 5/16 x .62" Lg.  |          | 99       | 732-0303 |            | Brake Return Spring                          |          |
|          |          |            |  |          | 100      | 14794    |            | Belt Guard                                   | N        |

\*\*Refer to chart on page 27.

# Model 698



FRAME VIEW



# Model 698

## PARTS LIST FOR MODEL 698 LAWN TRACTOR

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                                     | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                           | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|---------------------------------------|----------|
| 1        | 731-0220 |            | Steering Wheel Cap                              |          | 29       | 723-0156 |            | Ball Joint 3/8-24 Thd.                |          |
| 2        | 712-0267 |            | Hex Nut 5/16-18 Thd.*                           |          | 30       | 711-0613 |            | Tie Rod                               |          |
| 3        | 736-0242 |            | Belleville Wash. .345" I.D.                     |          | 31       | 712-0711 |            | Hex Jam Nut 3/8-24 Thd.*              |          |
| 4        | 731-0219 |            | Steering Wheel                                  |          | 32       | 14650    |            | Front Axle Ass'y.—R.H.                | N        |
| 5        | 731-0559 |            | Steering Column Bellow                          | N        | 33       | **       |            | Wheel Ass'y. Comp.                    |          |
| 6        | 14775    |            | Steering Column Ass'y.                          | N        | 34       | **       |            | Front Wheel Rim Only                  |          |
| 7        | 741-0356 |            | Flange Bearing .890 I.D. x 1.36 O.D.            | N        | 35       | 741-0313 |            | Bearing                               |          |
| 8        | 714-0147 |            | Internal Cotter Pin 1/4" Dia.                   |          | 36       | 736-0316 |            | FI-Wash. .635 I.D. x 1.59" O.D.       |          |
| 9        | 736-0319 |            | FI-Wash. .438" I.D. x 1.37" O.D.                |          | 37       | 731-0484 |            | Front Wheel Hub Cap                   |          |
| 10       | 738-0141 |            | Shoulder Bolt .437" Dia. x .35 Lg. 5/16-18 Thd. |          | 38       | 714-0470 |            | Cotterpin 1/8" Dia. x 1.25" Lg.*      |          |
| 11       | 710-0152 |            | Hex Bolt 3/8-24 x 1.0" Lg. (Grade 5)            |          | 39       | 736-0156 |            | FI-Wash. .635" I.D. x 1.20" O.D.      |          |
| 12       | 736-0206 |            | FI-Wash. .38" I.D. x 1.0" O.D.                  |          | 40       | 726-0214 |            | Push Cap 5/8" Dia. Ror.               | N        |
| 13       | 750-0535 |            | Spacer .380" I.D. x .625" O.D. x .227           | N        | 43       | 710-0538 |            | Hex L-Bolt 5/16-18 x .62" Lg.*        |          |
| 14       | 731-0555 |            | Drag Link Grommet                               | N        | 44       | 736-0119 |            | L-Wash. 5/16" I.D.*                   |          |
| 15       | 710-0726 |            | Hex Wash. Hd.                                   | N        | 45       | 736-0231 |            | FI-Wash. .344" I.D. x 1.25" O.D.      |          |
| 16       | 711-0739 |            | Steering Drag Link                              | N        | 46       | 750-0532 |            | Spacer (Plastic)                      | N        |
| 17       | 14619    | —609       | Front Pivot Brkt.                               | N        | 47       | 712-0241 |            | Hex Nut 3/8-24 Thd.*                  |          |
| 18       | 738-0527 |            | Shoulder Bolt .498" Dia. x 2.04 Lg. 3/8-16 Thd. | N        | 48       | 736-0169 |            | L-Wash. 3/8" I.D.*                    |          |
| 19       | 712-0798 |            | Hex Nut 3/8-16 Thd.*                            |          | 49       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                 |          |
| 20       | 736-0169 |            | L-Wash. 3/8" I.D.*                              |          | 50       | 736-0119 |            | L-Wash. 5/16" I.D.*                   | N        |
| 21       | 712-0237 |            | Hex Cent. L-Nut 5/16-24 Thd.                    |          | 51       | 717-0468 |            | Steering Gear Segment                 |          |
| 22       | 14611    |            | Steering Arm Front Axle                         | N        | 52       | 741-0225 |            | Hex Flg. Brg. .634 I.D.               | N        |
| 23       | 710-0772 |            | Hex Bolt 5/16-24 x 2.00" Lg. Grade 5            |          | 53       | 736-0187 |            | FI-Wash. (Hardened)                   | N        |
| 24       | 741-0225 |            | Hex Flg. Brg. .634 I.D.                         |          | 54       | 738-0522 |            | Steering Shaft Lower                  | N        |
| 25       | 14608    | —609       | Pivot Bar Ass'y.                                | N        | 55       | 711-0684 |            | Clevis Pin 1/4" Dia. x 1.00" Lg.      |          |
| 26       | 14649    |            | Front Axle Ass'y.—L.H.                          | N        | 56       | 14620    | —609       | Dash Panel Ass'y.                     | N        |
| 27       | 712-0241 |            | Hex Nut 3/8-24 Thd.*                            |          | 57       | 710-0837 |            | Ovel Hd. Cr.—Sunk Scr. #10 x 5/8" Lg. | N        |
| 28       | 736-0169 |            | L-Wash. 3/8" I.D.*                              |          | 58       | 736-0242 |            | Bell-Wash.                            |          |
|          |          |            |   |          | 59       | 736-0187 |            | FI-Wash. (Hardened)                   |          |

(609—Burgundy)  
(610—Rose)

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Burgundy Finish—14606 (609).)

### \*\*FRONT WHEEL CHART

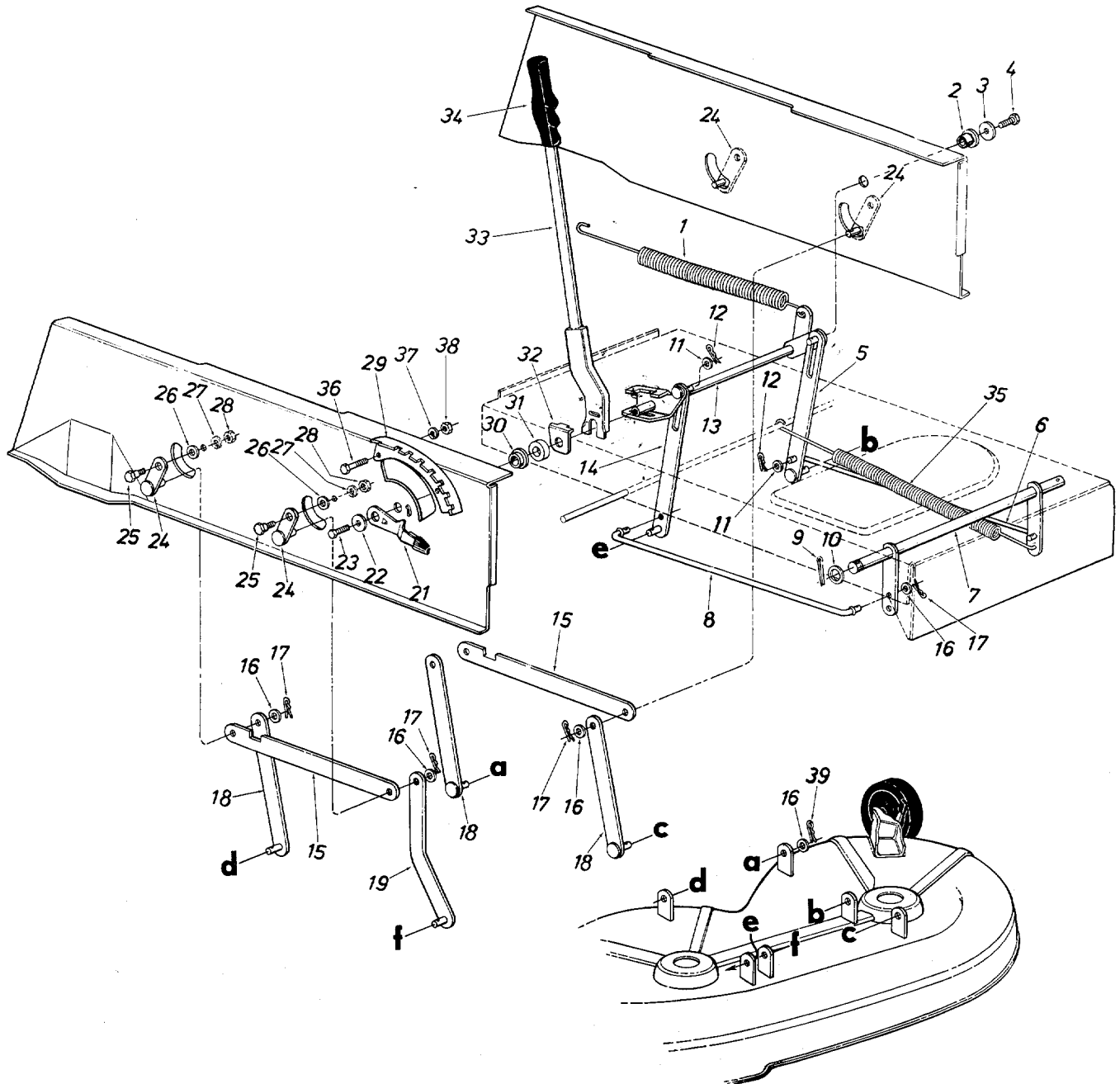
| Description          | 15 x 6.00—Part No. | 734-0541 | 734-0542 | Hub Cap—Front |
|----------------------|--------------------|----------|----------|---------------|
| Wheel Assembly Comp. | 734-0998           |          |          | Hub Cap—Rear  |
| Tire Only            | 734-0498           |          |          |               |
| Rim Only             | 734-0997           |          |          |               |
| Bearing              | 741-0313           |          |          |               |
| Air Valve            | 734-0255           |          |          |               |

### CHROME HUB CAPS (NOT SHOWN)

### \*\*REAR WHEEL CHART

| Description          | 18 x 6.50—Part No. | 16 x 6.50—Part No. |
|----------------------|--------------------|--------------------|
| Wheel Assembly Comp. | 734-0601           | 734-0591           |
| Tire Only            | 734-0516           | 734-0275           |
| Rim Only             | 734-0603           | 734-0594           |

# Model 698



DECK VIEW

# Model 698

## PARTS LIST FOR MODEL 698 LAWN TRACTOR

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                             | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                                 | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|---|----------|
| 1        | 732-0307 |            | Extension Spring .99" O.D. x 11.00" Lg. |          | 21       | 732-0412 |            | Deck Lift—Down Stop                         | N        |
| 2        | 741-0313 |            | Flange Bearing .634" I.D.               |          | 22       | 736-0231 |            | FI-Wash. .344" I.D. x 1.25" O.D. x 1.25     |          |
| 3        | 736-0231 |            | FI-Wash. .344" I.D. x 1.25" O.D. x .125 |          | 23       | 710-0604 |            | Hex Wash. Hd. 5/16-18 x .62" Lg.            |          |
| 4        | 710-0604 |            | Hex Wash. Hd. 5/16-18 x .62" Lg.        |          | 24       | 09721    |            | Pivot Link Ass'y.                           |          |
| 5        | 14802    |            | Link Deck Lift Ass'y.                   | N        | 25       | 738-0140 |            | Shld. Bolt .437" Dia. x .180" Lg. (5/16-18) |          |
| 6        | 711-0738 |            | Stabilizer Rod                          | N        | 26       | 736-0264 |            | FI-Wash. .344" I.D. x .62" O.D.             |          |
| 7        | 14647    |            | Stabilizer Shaft Ass'y.                 | N        | 27       | 736-0119 |            | L-Wash. 5/16" I.D.*                         |          |
| 8        | 711-0738 |            | Stabilizer Rod                          | N        | 28       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                       |          |
| 9        | 714-0470 |            | Cotter Pin 1/8" Dia. x 1 1/4" Lg.*      |          | 29       | 14633    |            | Index Brkt.                                 | N        |
| 10       | 736-0156 |            | FI-Wash. .330" I.D. x 1.20" O.D.        |          | 30       | 736-0341 |            | Flange Wash. .628" I.D. x 1.25" O.D.        | N        |
| 11       | 736-0192 |            | FI-Wash. .531" I.D. x .940" O.D.        |          | 31       | 735-0216 |            | Rubber Wash. 1.25" O.D. x .63" I.D. x .60   | N        |
| 12       | 714-0101 |            | Inter. Cotter Pin .50" Dia.             |          | 32       | 14654    |            | Retainer Washer—Lift Handle                 | N        |
| 13       | 14641    |            | Lift Shaft Ass'y.                       | N        | 33       | 14645    |            | Lift Handle Ass'y.                          | N        |
| 14       | 14802    |            | Link Deck Lift Ass'y.                   | N        | 34       | 720-0157 |            | Grip (Lift Handle)                          | N        |
| 15       | 09735    |            | Connecting Rod                          |          | 35       | 732-0410 |            | Extension Spring .99" O.D. x 13.25" Lg.     | N        |
| 16       | 736-0192 |            | FI-Wash. .531" I.D. x .940" O.D.        |          | 36       | 710-0198 |            | Hex Bolt 5/16-18 x .75" Lg.*                |          |
| 17       | 714-0104 |            | Inter. Cotter Pin For 3/8" Rod          |          | 37       | 736-0119 |            | L-Wash. 5/16" I.D.*                         |          |
| 18       | 14804    |            | Link Deck Hanger Ass'y.                 | N        | 38       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                       |          |
| 19       | 14800    |            | Link Deck Hanger Ass'y. (Dog Leg)       | N        | 39       | 714-0101 |            | Intern. Cotter Pin                          |          |

(609—Burgundy)  
(610—Rose)

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

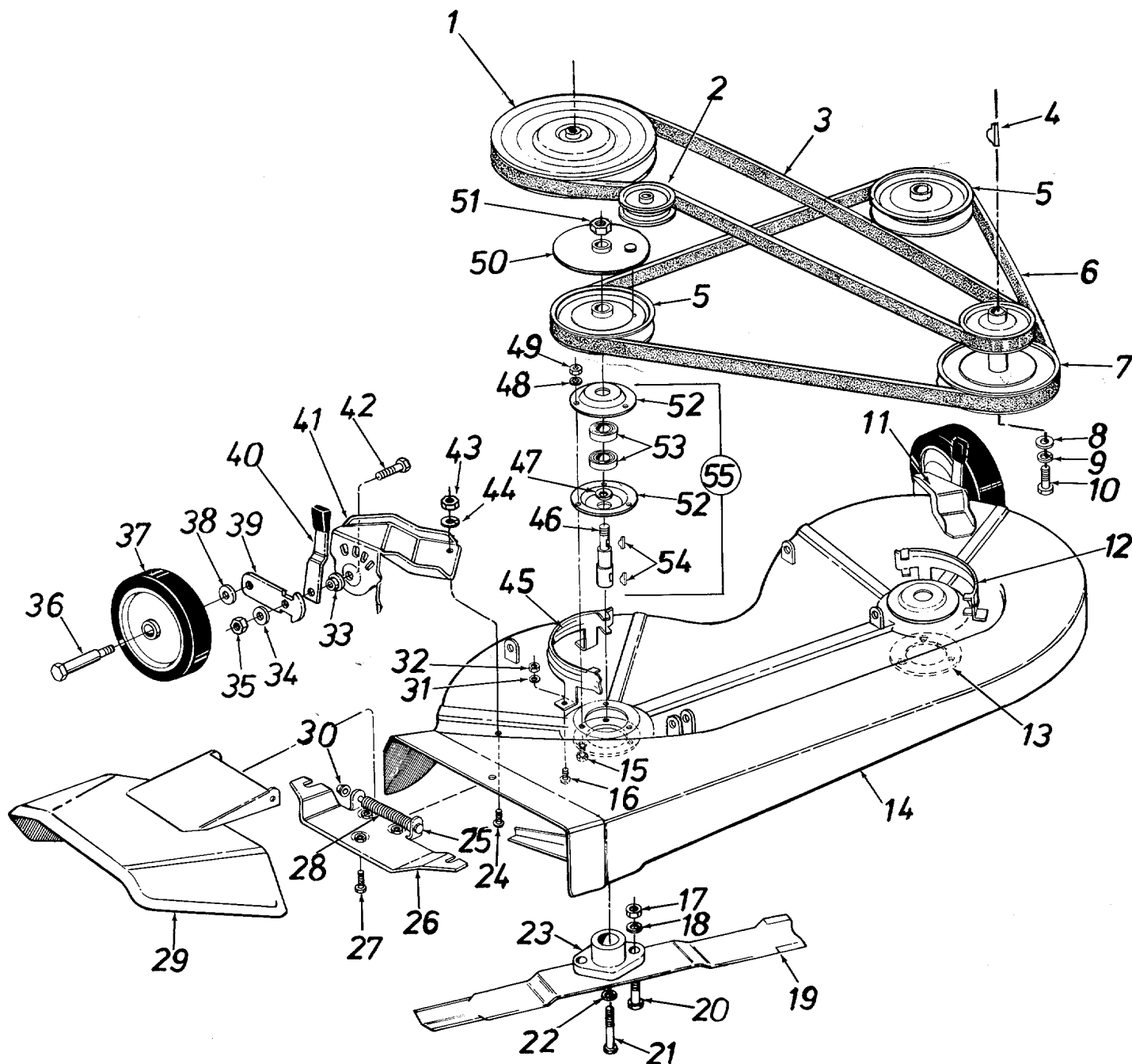
When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Burgundy Finish—14606 (609).)

# Model 698



## IMPORTANT

Belts listed by Part Number are of special construction and should be used when replacement is necessary. The dimensions and description given are for general reference only and belts purchased by description and dimension generally will only provide a temporary service.



# Model 698

## PARTS LIST FOR 38" DECK MODEL 698 LAWN TRACTOR

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                               | NEW PART | REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                          | NEW PART |
|----------|----------|------------|---|----------|----------|----------|------------|--------------------------------------|----------|
| 1        | 756-0341 |            | Transaxle Pulley                          |          | 28       | 732-0261 |            | Torsion Spring                       |          |
| 2        | 756-0225 |            | Flat Idler Pulley 3/8" I.D. x 2.75" O.D.  |          | 29       | 11633    |            | Chute Cover Ass'y.—Comp.             |          |
| 3        | 754-0266 |            | "V"-Belt "A" Glass 85" Lg. Bare Back      | N        | 30       | 726-0106 |            | Push Nut 1/4" Rod                    |          |
| 4        | 714-0114 |            | Sq. Key 1/4" x 1/4" x 2.0" Lg.            |          | 31       | 736-0329 |            | L-Wash. 1/4" I.D.*                   |          |
| 5        | 756-0251 |            | Pulley 4.75" O.D.                         |          | 32       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                 |          |
| 6        | 754-0145 |            | "V"-Belt 21/32 x 69" Lg.                  |          | 33       | 748-0279 |            | Shld. Spacer                         |          |
| 7        | 756-0368 |            | Two Step Engine Pulley                    | N        | 34       | 736-0219 |            | Bell-Wash. .400" I.D. x 1.13" O.D.   |          |
| 8        | 711-0572 |            | Step Wash.                                |          | 35       | 712-0181 |            | Hex Top L-Nut 3/8-16 Thd.            |          |
| 9        | 736-0169 |            | L-Wash. 3/8" I.D.*                        |          | 36       | 738-0373 |            | Shld. Bolt .498" Dia. x 1.53" Lg.    |          |
| 10       | 710-0151 |            | Hex Bolt 3/8-24 x 2.00" Lg.*              |          | 37       | 734-0973 |            | Plastic Wheel 5.0" x 1.38"           |          |
| 11       | 09082    |            | Wheel Brkt.—L.H.                          |          | 38       | 736-0105 |            | Bell-Wash. .400" I.D. x .88" O.D.    |          |
| 12       | 12672    |            | Belt Guard—L.H.                           |          | 39       | 10937    |            | Pivot Bar                            |          |
| 13       | 09164    |            | Plate Deck Reinforcement                  |          | 40       | 14082    |            | Spring Lever Ass'y. w/Knob           |          |
| 14       | 14662    |            | 38" Deck Ass'y.                           | N        | 41       | 09080    |            | Wheel Brkt.—R.H.                     |          |
| 15       | 710-0322 |            | Hex Sems Bolt 5/16-18 x 1.00" Lg.*        |          | 42       | 710-0253 |            | Hex Bolt 3/8-16 x 1.00" Lg.*         |          |
| 16       | 710-0289 |            | Hex Bolt 1/4-20 x .50" Lg.*               |          | 43       | 712-0287 |            | Hex Nut 1/4-20 Thd.*                 |          |
| 17       | 712-0123 |            | Hex Nut 5/16-24 Thd.*                     |          | 44       | 736-0329 |            | L-Wash. 1/4" I.D.*                   |          |
| 18       | 736-0119 |            | L-Wash. 5/16" I.D.*                       |          | 45       | 12673    |            | Belt Guard—R.H.                      |          |
| 19       | 742-0122 |            | 19" Blade                                 |          | 46       | 711-0255 |            | Blade Spindle                        |          |
| 20       | 710-0117 |            | Hex Bolt 5/16-24 x 1.00" Lg. (Grade 5)    |          | 47       | 13703    |            | Bearing Shield                       |          |
| 21       | 710-0459 |            | Hex Bolt 3/8-24 x 1.50" Lg. (Grade 5)     |          | 48       | 736-0119 |            | L-Wash. 5/16" I.D.*                  |          |
| 22       | 736-0217 |            | L-Wash. 3/8" I.D. (Heavy Duty)            |          | 49       | 712-0267 |            | Hex Nut 5/16-18 Thd.*                |          |
| 23       | 10769    |            | Blade Adapter Kit                         |          | 50       | 09322    |            | Brake Disc                           |          |
| 24       | 710-0289 |            | Hex Bolt 1/4-20 x .50" Lg.*               |          | 51       | 712-0261 |            | Hex Jam L-Nut 5/8-11 Thd.            |          |
| 25       | 711-0571 |            | Hinge Pin                                 |          | 52       | 08253    |            | Bearing Housing                      |          |
| 26       | 11396    |            | Adapter Plate                             |          | 53       | 741-0919 |            | Ball Bearing .787" I.D. x 1.85" O.D. |          |
| 27       | 710-0599 |            | Hex Wash. Self-Tap Scr. 1/4-20 x .50" Lg. |          | 54       | 714-0365 |            | #6 Hi-Pro Key 5/32" x 5/8" Dia.      |          |
|          |          |            |   |          | 55       | 09321    |            | Blade Spindle Ass'y.                 |          |
|          |          |            |   |          |          | 14777    |            | 38" Deck Ass'y. Comp. (Service Only) | N        |

(609—Burgundy)  
(610—Rose)

\*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

When ordering parts, if color or finish is important use the appropriate color code shown above. (e.g. Burgundy Finish—14606 (609).)

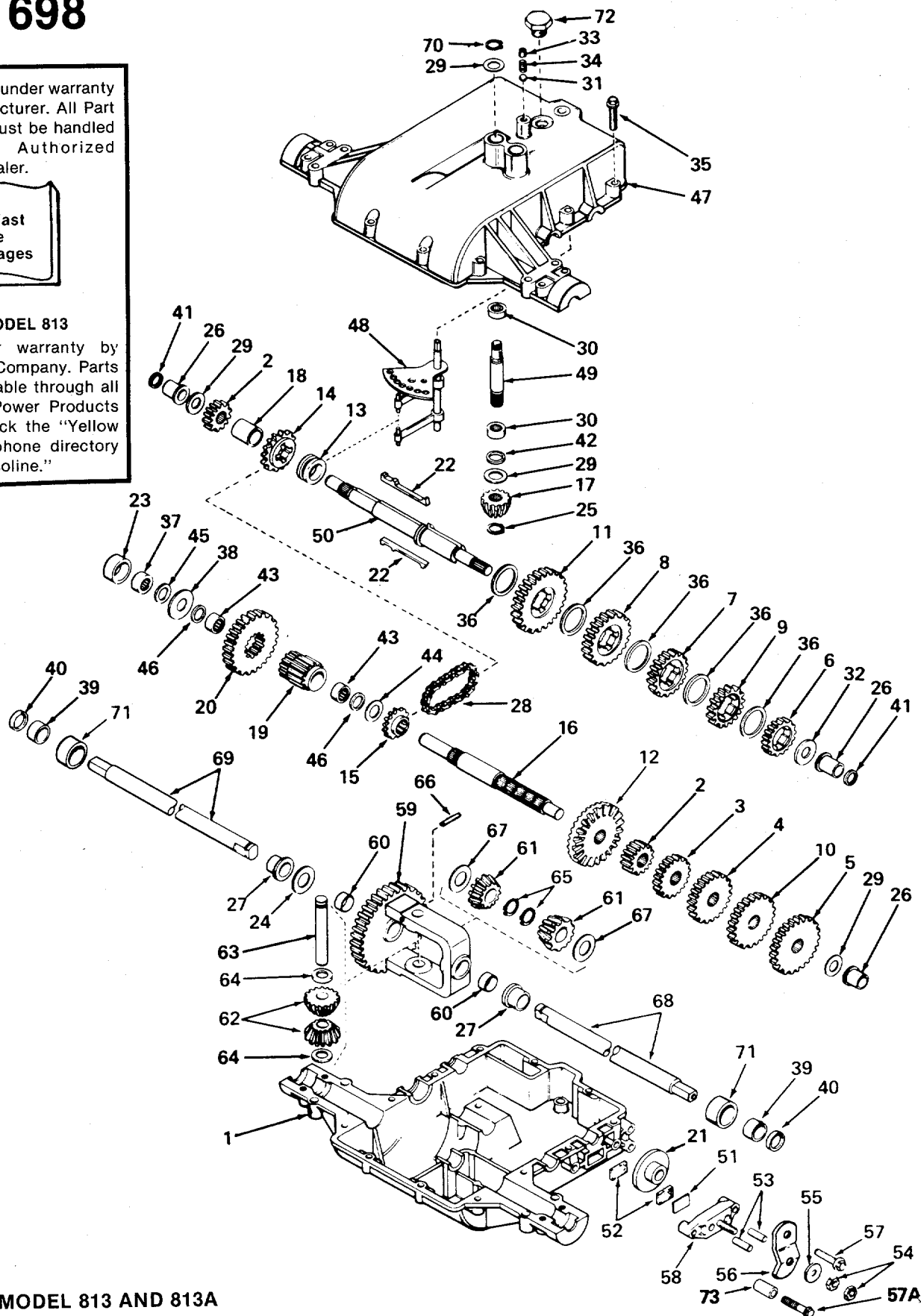
# Model 698

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.



## PEERLESS MODEL 813

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."



TRANSAXLE MODEL 813 AND 813A  
(717-0448)

# Model 698

## PARTS LIST FOR TRANSAXLE MODELS 813 AND 813-A (717-0448)

| REF. NO. | PART NO.   | DESCRIPTION                                      | REF. NO. | PART NO.   | DESCRIPTION  |
|----------|------------|--|----------|------------|--|
| 1        | PE-770069A | Case, Transaxle                                  | 36       | PE-780108  | Washer, Thrust                                     |
| 2        | PE-778136  | Gear, Spur (15 Teeth)<br>(Model 813)             | 37       | PE-780111  | Bearing, Needle                                    |
| 2        | PE-778145  | Gear, Spur (12 Teeth)<br>(Model 813-A)           | 38       | PE-780113  | Washer, Flat                                       |
| 3        | PE-778126  | Gear, Spur (20 Teeth)                            | 39       | PE-530105  | Bearing, Needle                                    |
| 4        | PE-778127  | Gear, Spur (25 Teeth)                            | 40       | PE-788042  | Seal, Oil  |
| 5        | PE-778129  | Gear, Spur (30 Teeth)                            | 41       | PE-788051  | Ring, Square Cut                                   |
| 6        | PE-778121A | Gear, Spur (20 Teeth)                            | 42       | PE-792001  | Ring, Square Cut                                   |
| 7        | PE-778123  | Gear, Spur (25 Teeth)                            | 43       | PE-780112  | Bearing, Needle                                    |
| 8        | PE-778124  | Gear, Spur (30 Teeth)                            | 44       | PE-780114  | Washer, Flat                                       |
| 9        | PE-778122  | Gear, Spur (22 Teeth)                            | 45       | PE-788052  | Ring, Square Cut                                   |
| 10       | PE-778128  | Gear, Spur (28 Teeth)                            | 46       | PE-788053  | Ring, Square Cut                                   |
| 11       | PE-778125  | Gear, Spur (35 Teeth)<br>(Model 813)             | 47       | PE-772077A | Cover, Transaxle                                   |
| 11       | PE-778146  | Gear, Spur (37 Teeth)<br>(Model 813-A)           | 48       | PE-784290  | Rod and Fork Ass'y., Shift                         |
| 12       | PE-778137  | Gear, Bevel (42 Teeth)                           | 49       | PE-776140  | Shaft, Input                                       |
| 13       | PE-784266  | Collar, Shift                                    | 50       | PE-776184  | Shaft, Brake                                       |
| 14       | PE-786083  | Sprocket (18 Teeth)                              | 51       | PE-790007  | Plate, Brake Pad                                   |
| 15       | PE-786082  | Sprocket (9 Teeth)                               | 52       | PE-790006  | Pad, Brake   |
| 16       | PE-776181  | Shaft, Counter                                   | 53       | PE-786026  | Pin, Dowel   |
| 17       | PE-778113A | Bevel Pinion, Input                              | 54       | PE-792075  | Lock Nut, 5/16-24                                  |
| 18       | PE-786074  | Spacer   | 55       | PE-792076  | Washer, Flat                                       |
| 19       | PE-778138  | Pinion, Output                                   | 56       | PE-790004  | Lever, Brake                                       |
| 20       | PE-778139  | Gear, Output                                     | 57       | PE-792073  | Screw, Hex Hd. Thread Form-<br>ing, 1/4-20 x 1-1/4 |
| 21       | PE-790003  | Disc, Brake                                      | 57A      | PE-792085  | Screw, Hex Hd. Thread Form-<br>ing, 1/4-20 x 2-1/4 |
| 22       | PE-792089A | Key  | 58       | PE-790005  | Holder, Brake Pad                                  |
| 23       | PE-786075  | Spacer   | 59       | PE-778053A | Gear Ass'y., Differential (Incl.<br>2 of No. 60)   |
| 24       | PE-780001  | Washer   | 60       | PE-780064  | Bushing  |
| 25       | PE-788040  | Ring, Retaining                                  | 61       | PE-778067  | Gear, Bevel  |
| 26       | PE-780105  | Bushing, Flanged                                 | 62       | PE-778068  | Pinion, Bevel                                      |
| 27       | PE-780118  | Bushing, Flanged                                 | 63       | PE-786034  | Pin Drive  |
| 28       | PE-786081  | Chain, Roller (No. 41<br>Chain, 24 Links)        | 64       | PE-780065  | Washer, Thrust                                     |
| 29       | PE-780072  | Washer, Thrust                                   | 65       | PE-792018  | Ring, Retaining                                    |
| 30       | PE-780086  | Bearing, Needle                                  | 66       | PE-792040  | Pin, Roll  |
| 31       | PE-792077  | Ball, Steel                                      | 67       | PE-780001  | Washer, Thrust                                     |
| 32       | PE-780109  | Washer, Thrust                                   | 68       | PE-774420  | Axle (14-7/8" Long)                                |
| 33       | PE-792078  | Screw, Set, 3/8-16 x 3/8                         | 69       | PE-774419  | Axle (13-3/4" Long)                                |
| 34       | PE-792079  | Spring   | 70       | PE-792035  | Ring, Retaining                                    |
| 35       | PE-792073  | Screw, Hex Hd. Thread<br>Forming, 1/4-20 x 1-1/4 | 71       | PE-786084  | Spacer   |
|          |            |  | 72       | PE-792074  | Plug   |
|          |            |  | 73       | PE-786066  | Spacer   |

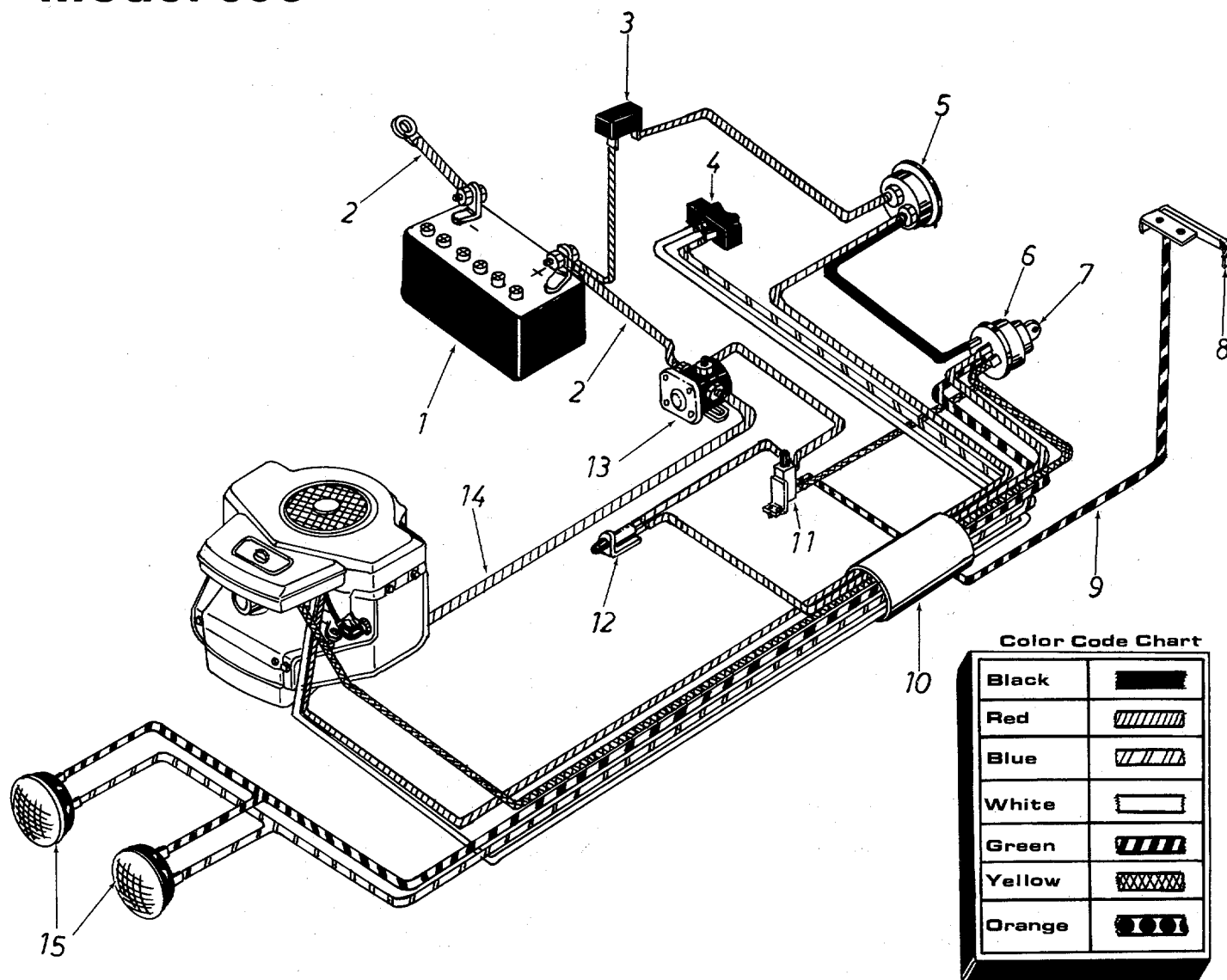
NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.



### PEERLESS MODEL 813

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

# Model 698



## PARTS LIST FOR ELECTRICAL SYSTEM MODEL 698

| REF. NO. | PART NO. | COLOR CODE | DESCRIPTION                         | NEW PART |
|----------|----------|------------|-------------------------------------|----------|
| 1        | 725-0514 |            | Battery                             |          |
| 2        | 725-0221 |            | Electric Wire                       |          |
| 3        | 725-0459 |            | Circuit Breaker                     |          |
| 4        | 725-0634 |            | Light Switch                        |          |
| 5        | 725-0119 |            | Ammeter                             |          |
| 6        | 725-0267 |            | Ignition Switch                     |          |
| 7        | 725-0201 |            | Ignition Key                        |          |
| 8        | 725-0759 |            | Reverse Safety Switch               |          |
| 9        | —        |            | Electric Wire (Part of Ref. No. 10) |          |
| 10       | 725-0807 |            | Wire Harness                        | N        |
| 11       | 725-0803 |            | Safety Switch                       | N        |
| 12       | 725-0577 |            | Safety Switch                       | N        |
| 13       | 725-0771 |            | Solenoid                            | N        |
| 14       | 725-0562 |            | Electric Wire                       | N        |
| 15       | 725-0222 |            | Headlight                           |          |



# PARTS INFORMATION

## POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

**NOTE:** If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

## BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

|                                      |                                  |
|--------------------------------------|----------------------------------|
| <b>ALABAMA</b>                       | <b>BIRMINGHAM</b>                |
| Auto Electric & Carburetor Co. ....  | 2625 4th Ave. S. .... 35233      |
| <b>ARKANSAS</b>                      | <b>FORT SMITH</b>                |
| Mity Mite Motors, Inc. ....          | 4515 S. 16th St. .... 72901      |
| Sutton's Lawn Mower Shop ....        | <b>NORTH LITTLE ROCK</b>         |
| <b>CALIFORNIA</b>                    | Rt. 4, Box 368 .... 72117        |
| Billious. ....                       | <b>PORTERVILLE</b>               |
| <b>COLORADO</b>                      | 75 North D Street .... 93257     |
| Spitzer Industrial Products Co. .... | <b>DENVER</b>                    |
|                                      | 6601 N. Washington St.,          |
|                                      | Box 29114 .... 80229             |
| <b>FLORIDA</b>                       | <b>JACKSONVILLE</b>              |
| Radco Distributors ....              | 4909 Victor St.,                 |
|                                      | Box 5459 .... 32207              |
| Small Eng. Dist. ....                | <b>OPA LOCKA</b>                 |
| <b>GEORGIA</b>                       | 2351 N.W. 147th St. .... 33054   |
| East Point Cycle & Key ....          | <b>EAST POINT</b>                |
| <b>ILLINOIS</b>                      | 2834 Church St. .... 30344       |
| Keen Edge Co. ....                   | <b>LYONS</b>                     |
| <b>INDIANA</b>                       | 8615 Ogden Ave. .... 60534       |
| Parts & Sales Inc. ....              | <b>ELKHART</b>                   |
| <b>IOWA</b>                          | 2101 Industrial Pkwy. .... 46514 |
| Power Lawn & Garden Equip. ....      | <b>DUBUQUE</b>                   |
| <b>LOUISIANA</b>                     | 2551 J.F. Kennedy .... 52001     |
| Suhren Engine Co. ....               | <b>NEW ORLEANS</b>               |
| <b>MARYLAND</b>                      | 8330 Earhart Blvd. .... 70118    |
| Center Supply Co. ....               | <b>TAKOMA PARK</b>               |
|                                      | 6867 New Hampshire               |
|                                      | Ave. .... 20012                  |
| <b>MASSACHUSETTS</b>                 | <b>SPRINGFIELD</b>               |
| Morton B. Collins Co. ....           | 300 Birnie Ave. .... 01107       |
| <b>MICHIGAN</b>                      | <b>LANSING</b>                   |
| Lorenz Service Co. ....              | 2500 S. Pennsylvania .. 48910    |
| Power Equipment Dist. ....           | <b>MOUNT CLEMENS</b>             |
| <b>MINNESOTA</b>                     | 340 Hubbard .... 48043           |
| Hance Distributing Inc. ....         | <b>HOPKINS</b>                   |
| <b>MISSISSIPPI</b>                   | 420 Excelsior Ave. W. .... 55343 |
| Biloxi Sales & Service, Inc. ....    | <b>BILOXI</b>                    |
| <b>MISSOURI</b>                      | 506 Caillavet St. .... 39533     |
| Automotive Equip. Service ....       | <b>KANSAS CITY</b>               |
|                                      | 3117 Holmes St. .... 64109       |
| Ross-Frazier Supply Co. ....         | <b>ST. JOSEPH</b>                |
|                                      | 8th and Monterey .... 64503      |
| Henzler, Inc. ....                   | <b>ST. LOUIS</b>                 |
| <b>NEW JERSEY</b>                    | 2015 Lemay Ferry Rd. .... 63125  |
| Lawnmower Parts Inc. ....            | <b>BELLMAWR</b>                  |
| <b>NEW MEXICO</b>                    | 717 Creek Rd. .... 08030         |
| Spitzer Eng. & Parts ....            | <b>ALBUQUERQUE</b>               |
| <b>NEW YORK</b>                      | 1023 Third St. N.W. .... 87103   |
| Gamble Dist., Inc. ....              | <b>CARTHAGE</b>                  |
|                                      | West End Ave. .... 13619         |

|                                     |                                 |
|-------------------------------------|---------------------------------|
| <b>NORTH CAROLINA</b>               | <b>GOLDSBORO</b>                |
| Smith Hardware Co. ....             | 515 N. George St. .... 27530    |
| Dixie Sales Company ....            | <b>GREENSBORO</b>               |
| <b>OHIO</b>                         | 335 N. Green .... 27402         |
| Stebe's Mid-State Mower Supply ..   | <b>CARROLL</b>                  |
|                                     | 71 High St., Box 366 ... 43112  |
| Bleckrie, Inc. ....                 | <b>CLEVELAND</b>                |
|                                     | 7900 Lorain Ave. .... 44102     |
| National Central ....               | <b>WADSWORTH</b>                |
|                                     | 687 Seville Rd. .... 44281      |
| Burton Supply Co. ....              | <b>YOUNGSTOWN</b>               |
|                                     | 1301 Logan Ave.,                |
|                                     | Box 929 .... 44501              |
| <b>OKLAHOMA</b>                     | <b>MUSKOGEE</b>                 |
| Victory Motors, Inc. ....           | 605 S. Cherokee .... 74401      |
| <b>OREGON</b>                       | <b>PORTLAND</b>                 |
| Kenton Supply Co. ....              | 8216 N. Denver Ave. .... 97217  |
| <b>PENNSYLVANIA</b>                 | <b>HARRISBURG</b>               |
| EECO Inc. ....                      | 4021 N. 6th St. .... 17110      |
| Thompson Rubber Co. ....            | <b>PHILADELPHIA</b>             |
|                                     | 5222-24 N. Fifth St. .... 19120 |
| Bluemont Co. ....                   | <b>PITTSBURGH</b>               |
|                                     | 11125 Frankstown Rd. .. 15235   |
| Frank Roberts & Sons                | <b>PUNXSUTAWNEY</b>             |
| <b>TENNESSEE</b>                    | R.D. 2 .... 15767               |
| Master Repair Service ....          | <b>KNOXVILLE</b>                |
|                                     | 2000 Western Ave. .... 37921    |
| American Sales & Service, Inc. .... | <b>MEMPHIS</b>                  |
| <b>TEXAS</b>                        | 3035-43 Bellbrook .... 38116    |
| Marr Brothers, Inc. ....            | <b>DALLAS</b>                   |
|                                     | 423 E. Jefferson .... 75203     |
| Woodson Sales Corp. ....            | <b>FORT WORTH</b>               |
|                                     | 1702 N. Sylvania .... 76111     |
| Bullard Supply Co. ....             | <b>HOUSTON</b>                  |
| <b>UTAH</b>                         | 2409 Commerce St. .... 77003    |
| A-1 Engine & Mower Co. ....         | <b>SALT LAKE CITY</b>           |
| <b>VERMONT</b>                      | 437 E. 9th St. .... 84111       |
| Vermont Hdwe. Co. Inc. ....         | <b>BURLINGTON</b>               |
| <b>VIRGINIA</b>                     | 180 Flynn Ave. .... 05401       |
| RBI Corp. ....                      | <b>ASHLAND</b>                  |
|                                     | Lake Ridge Park,                |
|                                     | 101 Cedar Run Dr. .... 23005    |
| <b>WASHINGTON</b>                   | <b>SEATTLE</b>                  |
| Bailey's Inc. ....                  | 1414 14th Ave. .... 98102       |
| <b>WEST VIRGINIA</b>                | <b>CHARLESTON</b>               |
| Young's, Inc. ....                  | 233 Virginia St., E. .... 25301 |
| <b>WISCONSIN</b>                    | <b>MARSHFIELD</b>               |
| Power Pac ....                      | 301 E. 29th St. .... 54449      |

## WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

### CLAIMS AGAINST THE MANUFACTURER'S WARRANTY

#### INCLUDES:

- Replacement of Missing Parts on new equipment.
- Replacement of Defective Parts within the warranty period.
- of Defects within the warranty period.

All claims MUST be substantiated with the following information:

1. Model Number of unit involved.
2. Date unit was purchased or first put into service.
3. Date of failure.
4. Nature of failure.